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ST. LAWRENCE POWER PROJECT

The frontispiece opposite shows the Canadian and United States powerhouses incorporated in a single structure extending across the north channel of the river to the Canadian shore. At the international boundary, where the powerhouses meet, the monument depicted above stands as a symbol of mutual co-operation and goodwill.

Her Majesty Queen Elizabeth II, on June 27, 1959, unveiled the words of the following inscription on the base of this monument.

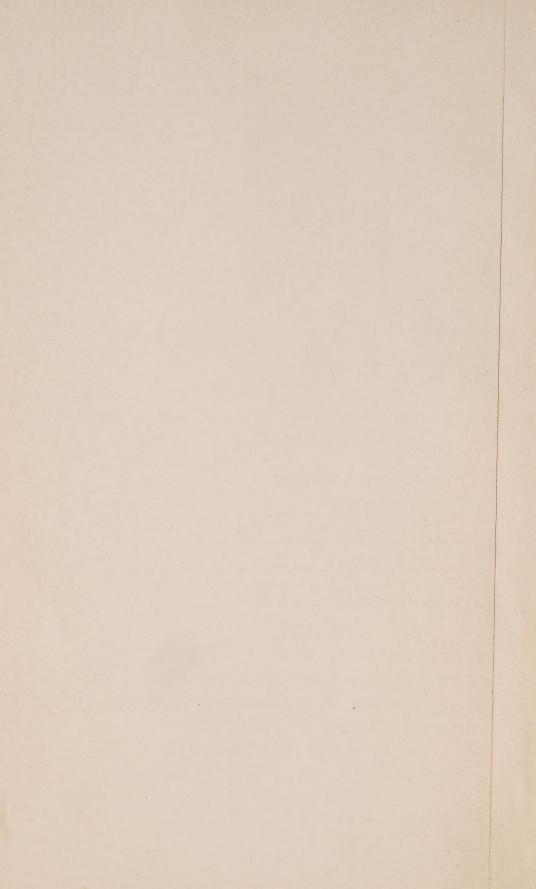
THIS STONE BEARS WITNESS

TO THE COMMON PURPOSE OF TWO NATIONS

WHOSE FRONTIERS ARE THE FRONTIERS OF FRIENDSHIP,

WHOSE WAYS ARE THE WAYS OF FREEDOM,

AND WHOSE WORKS ARE THE WORKS OF PEACE.





The Hydro-Electric Power Commission of Ontario

Fifty-first

Annual Report

for the Year

1958

This Report is published pursuant to The Power Commission Act, Revised Statutes of Ontario, 1950, Chapter 281, Section 9.

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THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO December 1958

James S. Duncan, C.M.G., LL.D. Chairman

W. Ross Strike, Q.C. 1st Vice-Chairman

Hon. Robert W. Macaulay, Q.C., M.L.A. 2nd Vice-Chairman

LT.-Col. A. A. Kennedy, D.S.O., E.D. Commissioner

D. P. CLIFF
Commissioner

A. W. Manby, B.Sc. General Manager

Otto Holden, B.A.Sc., C.E., D.Eng. Chief Engineer

Ernest B. Easson, B.Com. Secretary



LETTER OF TRANSMITTAL

Toronto, Ontario, June 15, 1959

THE HONOURABLE JOHN KEILLER MACKAY, D.S.O., V.D., LL.D.

Lieutenant-Governor of Ontario

SIR:

I have the honour to present the Annual Report of The Hydro-Electric Power Commission of Ontario for the year ended December 31, 1958.

The year under review was marked by the greatest addition to power resources in the Commission's fifty-two year history. New generating stations and extensions to existing generating stations totalled more than 800,000 kilowatts of capacity placed in service during the past year. The 1958 program of capital development amounted to approximately \$191,000,000 and represented more than one dollar in every twelve invested in new equipment and facilities in the Province during the same period. Confirmation of the need for these additional resources was evident towards the end of the year as greater demands for power and a growing confidence in the business outlook indicated increased economic activity for the months ahead.

At the beginning of 1958 there were 13 generating station projects in the Commission's capital construction program. During the year three of the new hydraulic developments, Sir Adam Beck-Niagara Generating Station No. 2, Whitedog Falls Generating Station and Caribou Falls Generating Station were completed, the Robert H. Saunders-St. Lawrence Generating Station was placed in service and the extensions to Cameron Falls, Alexander, and Manitou Falls Generating Stations were also completed. Meanwhile two new hydraulic generating stations, Otter Rapids on the Abitibi River and Red Rock Falls on the Mississagi River were added to the program and work was resumed at the Nuclear Power Demonstration Plant.

By the end of 1958 construction was in progress at five hydraulic generating stations and three conventional thermal-electric developments, namely, the Richard L. Hearn, the Lakeview and the Thunder Bay Generating Stations. Four 200,000-kilowatt units are being added to bring the installed capacity of the Richard L. Hearn Generating Station to 1,200,000 kilowatts or three times its present installation. The ultimate installed capacity foreseen for these three thermal-electric stations is 4,000,000 kilowatts, which is slightly less than the total dependable capacity of the Commission's generating resources in December 1957. The Robert H. Saunders-St. Lawrence Generating Station will be completed during 1959. The four other hydraulic developments in the process of construction are located in northern Ontario and form part of a long-range plan which will co-ordinate the development of northern hydraulic resources with the thermal-electric program and bring the power from comparatively remote stations to load centres by means of an extra-high-voltage transmission system.

Gross revenues of the Commission in 1958 amounted to \$201,259,225, which exceeded comparable revenues in 1957 by 3.0 per cent. The total cost of providing electrical service for the year under review was \$197,690,110, which was 3.2 per cent greater than the cost on a comparable basis in 1957. The amount by which energy loads of the Commission's customers in 1958 exceeded those in 1957 was more than met by increases in the amounts of energy available to the Commission from hydro-electric sources. It was therefore possible to reduce considerably the number of higher-cost kilowatthours used which otherwise would have been obtained from thermal-electric generating stations. The result was a substantial reduction in the cost of fuel and in other operating costs at thermal-electric stations as compared with those in 1957. The excess of revenue over cost permitted the Commission to make rebates to the cost-contract municipalities in the Southern Ontario System and the Northern Ontario Properties to the total amount of \$2,867,032.

Agreements have recently been signed with the Province relating to the payment of water rentals by the Commission. Legislation passed at the 1959 session of the Legislature amended The Power Commission Act to enable the Commission to increase payments made to municipalities in lieu of taxes on Commission properties. Beginning in 1959, the Commission will now make payments to those municipalities where there are generating and

transformer stations as well as to those where there are administration buildings. As a result of these changes the Commission's future operating costs must include the substantially increased payments made to the Provincial Government and the municipalities.

A sales promotion department has recently been established by the Commission, and the regional staffs have been expanded to provide assistance to the municipal utilities in promoting the use of electricity. In conjunction with the municipal utilities the Commission is giving strong support to the "Live Better Electrically" campaign in order to increase general knowledge on the advantages of the wide use of electricity. Particular emphasis is being placed on house heating and the benefits that will undoubtedly follow the future development of electrical devices for household use.

During 1957 the frequency standardization program was extended to include some 20,000 customers in the Northeastern Division of the Northern Ontario Properties and the equipment of these customers was standardized during the first part of 1958. By the end of the year, the frequency standardization program was nearing completion, leaving only a small area in North Toronto and in Leaside to be standardized. These areas will be completed by July 1959.

I wish, on the Commission's behalf, to express appreciation for the gracious visit made by Her Royal Highness The Princess Margaret to the Sir Adam Beck-Niagara Generating Station in August 1958. The Commission will be honoured also by Her Majesty The Queen and His Royal Highness The Prince Philip during their tour of Canada in the month of June 1959 when Her Majesty will unveil at the St. Lawrence Power Project a monument placed on the boundary between Canada and the United States and memorializing the achievement of this international co-operative undertaking.

To my fellow commissioners may I express my sincere thanks and appreciation for their continuing assistance, co-operation, and support throughout the year in the conduct of the Commission's extensive operations.

The Annual Report of the Commission would not be complete without grateful acknowledgment of the contribution the staff has made during the past year through its loyalty, efficiency, and technical skill in making the period under review one of successful accomplishment.

Respectfully submitted,

JAMES S. DUNCAN,

Chairman.

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FIFTY-FIRST ANNUAL REPORT

OF

The Hydro-Electric Power Commission of Ontario

FOREWORD

THE Hydro-Electric Power Commission of Ontario is a corporate entity, a self-sustaining public enterprise endowed with broad powers with respect to electricity supply throughout the Province of Ontario. Its authority is derived from an Act of the Provincial Legislature passed in 1906 to give effect to recommendations of earlier advisory commissions that the water powers of Ontario should be conserved and developed for the benefit of the people of the Province. It now operates under The Power Commission Act (7-Edward VII, c.19) passed in 1907 as an amplification of the Act of 1906 and subsequently modified from time to time (Revised Statutes of Ontario, 1950, c.281, as amended). In addition to administering the enterprise over which it has direct control, the Commission exercises certain regulatory functions with respect to the province-wide group of municipal electrical utilities which it serves.

The Commission may have from three to six members, all of whom are appointed by the Lieutenant-Governor in Council. One commissioner must, and a second commissioner may, be a member of the Executive Council of the Province of Ontario. In the conduct of the Commission's affairs, the commissioners are responsible for, and are the final authority in establishing policy.

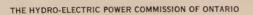
2 Foreword

Systems and the Power Supply

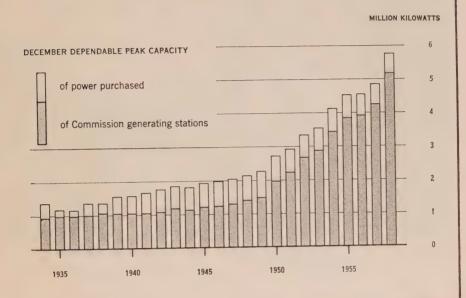
For the financial and administrative purposes of the Commission, the Province is divided into two parts. The roughly triangular part of the Province lying south of Lake Nipissing and the French and Mattawa Rivers is served by the Southern Ontario System. It is a fully integrated power system comprising the Niagara, Eastern Ontario, and Georgian Bay Divisions. The northern part of the Province is served by the Northern Ontario Properties, comprising the Northeastern and Northwestern Divisions. The Southern Ontario System is a co-operative system primarily serving a large group of municipalities receiving power at cost under contracts established according to the provisions of The Power Commission Act. The Northern Ontario Properties are not a co-operative system, but the power facilities of the Northwestern Division do serve a small group of municipalities at cost. Apart from the supply of power to these costcontract customers the Northern Ontario Properties are held and operated in trust for the Province of Ontario. Each of the two northern divisions is an integrated power system, the Northeastern Division being also interconnected with the Southern Ontario System. For administrative purposes the whole area served by the Commission is subdivided into nine regions, seven in the south and two in the north, with regional offices located in nine major municipalities. At present the two northern regions coincide with the Northeastern and Northwestern Divisions.

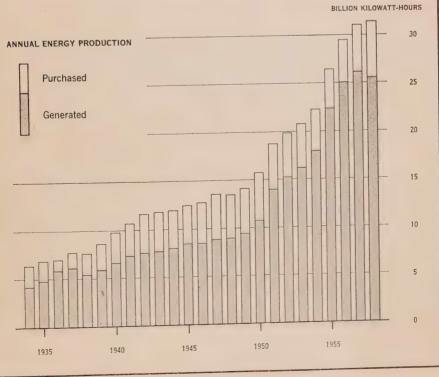


OTTER RAPIDS — Here, where the turbulent waters of the Abitřbi River are confined within a deep rocky channel, a new hydro-electric power station will be built by the Commission. Three generating units with a total dependable peak capacity of 131,000 kilowatts will be placed in service by 1962.



TOTAL POWER RESOURCES AND ENERGY PRODUCTION





4 Foreword



On September 5, 1958 formal ceremonies marked the official opening of the St. Lawrence Power Project. Before a backdrop symbolizing international amity and co-operation, Mr. J. S. Duncan, Chairman of the Commission, addresses the audience of 2,000 Canadian and United States visitors.

Power is delivered in bulk for resale either by the associated municipal electrical utilities, or by other interconnected systems including certain independent municipal distribution systems and other utilities operating within or beyond the Provincial boundaries. The associated municipal electrical utilities, administered by local commissions and functioning under the general supervision of The Hydro-Electric Power Commission of Ontario as provided for in The Power Commission Act and The Public Utilities Act. own and operate their own distribution systems to serve ultimate customers in most cities and towns, in many villages, and in certain township areas. The Commission also delivers bulk power to certain industrial customers who. though they may be located within areas served by the municipal utilities, frequently have power requirements of such magnitude, or create supply conditions so unusual, as to make service by the local utilities impracticable. In total, these two aspects of bulk delivery represent about 90 per cent of the Commission's energy sales. The remaining 10 per cent of the Commission's sales are made to ultimate customers either in rural areas served on behalf of the townships by the Commission's rural distribution facilities, or in a limited number of municipalities served by Commission-owned local distribution systems.

Financial Features

The basic principle governing financial operations of the undertaking and its associated municipal electrical utilities is that service is provided at cost. In the Commission's operations, cost of service includes payment for power purchased, charges for operating and maintaining the power systems, and related fixed charges. The fixed charges represent interest on debt, reserve provisions for depreciation and for contingencies and rate stabilization, and the further provision of a sinking fund reserve for retiring the Commission's capital debt. The municipal utilities operating under cost contracts with the Commission are billed throughout the year at interim rates based on estimates of the cost of service. At the end of the year, when the actual cost of service is established, the necessary balancing (debit or credit) adjustments are made in their accounts. Retail rates for the municipal utilities are established at levels calculated to produce adequate revenue to meet cost. The Commission's retail rate structure for rural service other than industrial power service has been uniform throughout the Province since 1944.

The enterprise from its inception has been self-sustaining. The Province, however, guarantees the payment of principal and interest on all bonds issued by the Commission and held by the public. In addition, over a period of nearly forty years the Province has materially assisted the development of agriculture by contributing toward the capital cost of rural distribution facilities.

Annual Summary—1958

The increase in capacity of the Commission's generating stations during 1958 was the largest annual increase in the Commission's history. The total increase of 917,000 kilowatts was greater by 61 per cent than the previous maximum increase in 1954.



ST. LAWRENCE FOWER PROJECT—From this side of the attractively furnished visitors' gallery the view to the left is down stream. The windows at the far end overlook the adjoining powerhouses extending towards Barnhart Island.

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Fixed assets at cost		
Primary power requirements, December thousand kw Annual energy generated and purchased million kwh Primary million kwh Secondary million kwh Annual energy sold by the Commission million kwh Annual revenue of the Commission (net after refunds) million show the Gross expenditure on fixed assets in year million show the Gross expenditure on fixed assets in year million show the Commission million show the Gross expenditure on fixed assets in year milli		1948
Annual energy generated and purchased. million kwh Primary. million kwh Secondary. million kwh Annual energy sold by the Commission million kwh Annual revenue of the Commission (net after refunds) million \$ Fixed assets at cost million \$ Gross expenditure on fixed assets in year million \$ Total assets, less accumulated depreciation million \$ Long-term debt million \$ Transmission line circuit miles Primary rural distribution line circuit miles 27,321		2,166
Primary million kwh Secondary million kwh Annual energy sold by the Commission million kwh 12,127 Annual revenue of the Commission (net after refunds) million \$ 63* Fixed assets at cost million \$ 546* Gross expenditure on fixed assets in year million \$ 91* Total assets, less accumulated depreciation million \$ 274* Long-term debt million \$ 274* Transmission line circuit miles 11,058 Primary rural distribution line circuit miles 27,321	Primary power requirements, Decemberthousand kw	2,439
Primary million kwh Secondary million kwh Annual energy sold by the Commission million kwh 12,127 Annual revenue of the Commission (net after refunds) million \$ 63* Fixed assets at cost million \$ 546* Gross expenditure on fixed assets in year million \$ 91* Total assets, less accumulated depreciation million \$ 274* Long-term debt million \$ 274* Transmission line circuit miles 11,058 Primary rural distribution line circuit miles 27,321	Annual energy generated and purchasedmillion kwh	13,554
Annual energy sold by the Commission million kwh Annual revenue of the Commission (net after refunds) million 563* Fixed assets at cost million 546* Gross expenditure on fixed assets in year million 591* Total assets, less accumulated depreciation million 584* Long-term debt million 5274* Transmission line circuit miles 11,058 Primary rural distribution line circuit miles 27,321		13,106
Annual revenue of the Commission (net after refunds)	Secondarymillion kwh	448
Fixed assets at cost million \$ 546* Gross expenditure on fixed assets in year million \$ 91* Total assets, less accumulated depreciation million \$ 584* Long-term debt million \$ 274* Transmission line circuit miles 11,058 Primary rural distribution line circuit miles 27,321	Annual energy sold by the Commissionmillion kwh	12,127
Gross expenditure on fixed assets in year	Annual revenue of the Commission (net after refunds)million \$	63*
Total assets, less accumulated depreciation	Fixed assets at cost	546*
Total assets, less accumulated depreciation	Gross expenditure on fixed assets in year	91*
Long-term debtmillion \$274*Transmission linecircuit miles11,058Primary rural distribution linecircuit miles27,321	Total assets, less accumulated depreciationmillion \$	584*
Primary rural distribution line	Long-term debt million \$	274*
Primary rural distribution line	Transmission linecircuit miles	11,058
Average number of employees in year	Primary rural distribution line	27,321
Tiverage number of employees in year	Average number of employees in year	16,359

^{*} Financial figures for 1948 and 1949 relate to a twelve-month period ending October 31, and for 1950 to a 14-month

Number of associated municipal electrical utilities.....

Ultimate customers served by the Commission and municipal utilities....thousands

In 1958 the Commission completed its extensive program of redevelopment on the Niagara River. This program, begun in 1950, has resulted in the installation of an additional 1,370,000 kilowatts of generating capacity on the river during the past five years. The last two units were placed in service at the main powerhouse of Sir Adam Beck-Niagara Generating Station No. 2 and the associated pumping-generating station was completed with the placing in service of the last three units of the six-unit station. At the St. Lawrence Power Project work was largely concentrated at Robert H. Saunders-St. Lawrence Generating Station, which was initially placed in service in July. By the end of the year seven of the sixteen units planned for the station were in service. The remaining nine units will be placed in service during 1959. With the completion of this station the last major hydro-electric site in southern Ontario will have been developed and the Commission must turn increasingly to sources other than hydraulic to meet growing demands for power.

During 1958 the dependable peak capacity of the Commission's resources in the Northwestern Division was augmented by 163,100 kilowatts when the three-unit stations at Whitedog Falls on the Winnipeg River and at Caribou Falls on the English River were placed in service and single units were added at each of Cameron Falls and Alexander Generating Stations on the Nipigon River and at Manitou Falls Generating Station on the English River. Work continued throughout the year at Silver Falls Generating Station on the Kaministikwia River. Work at Thunder Bay Generating Station, the new thermal-electric development at Fort William, progressed satisfactorily on a schedule that will bring the station into service in late 1961. In the Northeastern Division construction work was begun at two additional

Summary 1948-1958

1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
2,282	2,730	2,942	3,353	3,565	4,135	4,530	4,552	4,844	5,761
2,490	2,799	3,109	3,278	3,488	3,702	4,229	4,514	4,784	5,139
14,173	15,880	18,811	19,974	20,912	22,386	26,555	29,523	31,101	31,450
13,664	15,287	17,544	18,774	19,951	20,788	23,258	25,537	27,405	28,382
509	593	1,267	1,200	961	1,598	3,297	3,986	3,696	3,068
12,623	14,074	16,632	17,728	18,587	19,928	23,909	26,828	28,318	28,633
69*	99*	102	112	136	143	162	183	197	198
693*	861*	1,020	1,177	1,355	1,469	1,573	1,733	1,931	2,108
150*	171*	165	163	184	133	115	173	209	191
768*	934*	1,099	1,266	1,491	1,653	1,788	2,011	2,255	2,423
417*	571*	690	862	1,040	1,162	1,209	1,392	1,573	1,691
11,778	13,637	14,280	14,813	15,251	15,785	16,115	16,489	16,717	17,499
32,059	34,793	38,198	40,277	41,589	42,540	43,851	44,492	45,375	46,438
21,055	21,187	21,174	19,570	19,242	18,750	17,278	18,075	19,597	17,701
315	321	324	327	332	338	343	350	351	354
1,078	1,187	1,249	1,316	1,390	1,467	1,540	1,612	1,674	1,757

period ending December 31.

power developments, Otter Rapids on the Abitibi River and Red Rock Falls on the Mississagi River. Preparations were also made for the addition of a 60-cycle unit at Abitibi Canyon Generating Station on the Abitibi River early in 1959.

In the Southern Ontario System two large thermal-electric construction projects are at present being carried out by the Commission. They are the four-unit extension of Richard L. Hearn Generating Station in Toronto, and the Lakeview Generating Station just west of Metropolitan Toronto. The former, when complete in late 1960, will increase the capacity of Richard L. Hearn Generating Station by 800,000 kilowatts to 1,200,000 kilowatts. At Lakeview Generating Station the two units scheduled for installation in 1961 and 1962 will be rated at 300,000 kilowatts each, half as big again as the units in the extension at Richard L. Hearn Generating Station. When these units are in service at the end of 1962, the installed capacity of the Commission's conventional thermal-electric stations will be 2,164,000 kilowatts.

In the meantime the Commission is proceeding, in conjunction with Atomic Energy of Canada Limited, with plans for the development of Canada's first large-scale nuclear power station; since 1956 it has been engaged in the actual construction of a 20,000-kilowatt Nuclear Power Demonstration Plant as a joint undertaking with this Crown Corporation and Canadian General Electric Company Limited. Early in the year a Nuclear Power Plant Division of Atomic Energy of Canada Limited was established at the Commission's A. W. Manby Service Centre. It includes members of the staff of both the Corporation and the Commission engaged in furthering the work that will lead to the development of economic power from nuclear resources.

8 Foreword



On the shore of Lake Ontario just west of Metropolitan Toronto, the site of Lakeview Generating Station is prepared for construction. Two turbo-generators, each with an installed capacity of 300,000 kilowatts, will be in service here by 1962.

In the northern areas of the Province, however, a number of promising hydraulic resources are still available, not all of them within economic transmission distance of concentrated loads at present transmission voltages. Accordingly the Commission has begun a test program of the feasibility of long-distance transmission at extra-high voltage, the results of which will have a significant bearing on the importance of these more remote resources. In total they may represent about a million kilowatts of potential capacity but many of them are located on streams of widely variable flow. It will, therefore, be necessary, even when these sites appear to be economically feasible for development, to provide a firm base for the capacity they offer by building additional thermal-electric stations. Hence the development of these hydraulic sites will be co-ordinated in the construction program with the building of thermal-electric resources as circumstances require.

The program of frequency standardization at 60 cycles in the Southern Ontario System is approaching completion. As an extension of the program in 1957, a number of customers in municipal and rural areas of the Northeastern Division were added, and their equipment was standardized in the period February-July 1958. During December the equipment of the millionth customer was changed over from 25- to 60-cycle frequency and the estimated 30,000 customers remaining on 25-cycle service in and around Toronto will have their equipment standardized before the end of July 1959. This is a full five years in advance of the date originally scheduled for the completion of the program.

GUIDE TO REPORT

Details of the Commission's activities which have been briefly summarized in the foregoing paragraphs are given in the seven sections and four appendices of the Report which follow. Operations, finance, customer relations, and frequency standardization are the subjects of the first four sections and their related appendices. The narrative in Section I dealing with the production, purchase, and delivery of power is supplemented in the text by reports of weather conditions, maintenance, communications, and forestry, all of which are related to operations. Supplementary tables are in Appendix I. Section II includes the Commission's balance sheets. statements of financial operations, and tables showing the funded debt and advances from the Province of Ontario. Appendix II includes supporting schedules and accounts, in addition to the statements of reserves, sinking fund equity, and cost of power. In Section III consideration is given first to the wholesale operation of supplying power to municipal electrical utilities and to certain interconnected systems for resale, and second to service to certain industrial customers supplied directly by the Commission. The supply of power in wholesale quantities to the rural operating areas is then briefly discussed under the heading Rural Electrical Service. This commentary is immediately followed by a discussion of retail aspects of service to ultimate customers served by the Commission in these areas. Supplementary information on rural service is to be found in Appendix III. Another subsection of Section III, in the form of reports from the regions. deals with certain activities relative to service in municipal utilities. Many



On the north shore of the Mission River as it flows into Lake Superior at Fort William, ground is broken for the erection of the first major thermal-electric generating station in northern Ontario. At this station, to be known as Thunder Bay Generating Station, a single turbo-generator with an installed capacity of 100,000 kilowatts is scheduled for service in 1961.

10 Foreword

of these activities have involved participation by, or the assistance of, members of the Commission's staff. Frequency standardization is the subject of Section IV, but the financial aspects of this project are included in Section II with the discussion of financial activities in general.

Engineering and construction activities are discussed in the two sections that follow. Section V deals with the planning and construction of facilities for the delivery of power. It includes descriptions of the more important construction projects and statistics relative to these and other facilities for the generation, transformation, and delivery of power. Section VI contains reports on the progress of some of the investigations being conducted by members of the Commission's Research Division.

Section VII deals with aspects of employee relations, training, and staff administration. Appendix IV lists Orders in Council and legislation pertaining to the Commission's affairs.

A large part of the Report is devoted to aspects of retail service to ultimate customers, especially that provided by the municipal electrical utilities. The commentary on these activities and the statistical tables applicable to them, formerly designated as Section VIII, are brought together in a supplement to the Report entitled Municipal Electrical Service beginning on page 195. The four statements that complete the municipal service supplement give: (1) Statement "A"—balance sheets, (2) Statement "B"—operating statements, (3) Statement "C"—rates, and (4) Statement "D"—other statistical information relating to the municipal systems. As the service rendered by the Commission-owned local systems is comparable to that provided by the municipal utilities, the local systems are included in the statistical summaries in the municipal supplement and are also listed in Statements "C" and "D".

SECTION I

OPERATION OF THE SYSTEMS

THE demands on the Commission for electric power in 1958 reflected the changes in business activity throughout the Province. During the first three-quarters of the year volume of output generally declined; however, a sharp upturn of industrial activity in the last quarter contributed to primary peak and energy demands which were the highest recorded by the Commission. Peak demands represented a growth in load of 7.4 per cent, a rate of growth somewhat steeper than the long-term rate over the past 36 years. Energy demands, showing a 3.6 per cent growth over 1957 demands, fell considerably short of the long-term rate.

The increase in power requirements was met by the placing in service of three new hydro-electric stations and the extension of four other stations. The Robert H. Saunders-St. Lawrence Generating Station was placed in service early in July and at the end of the year seven generating units were producing power. New three-unit generating stations at Whitedog Falls and Caribou Falls were placed in service during the year. At Sir Adam Beck-Niagara Generating Station No. 2 two additional units were placed in service at the main generating station and three at the pumping-generating station. Single-unit extensions were placed in service at Manitou Falls, Cameron Falls, and Alexander Generating Stations.

The total net output of all resources in 1958 was 31.5 billion kilowatthours, an increase of 1.1 per cent over 1957. Of this amount, 25.6 billion

POWER SUPPLY STATISTICS-1958

(Italic type indicates per cent decrease)

			Northern Prope		
		Southern Ontario System	North- eastern Division	North- western Division	Total
Resources					
Dependable peak capacity December (kilowatts Per cent change		, , ,	300,400 300,400 0	530,300 369,300 43.6	4,844,100
Requirements				,	
Primary					
Peak—Annual maximum (kilowatts) Per cent change	1958 1957	7,000,710	453,199 459,117 1.3	448,821 406,880 10.3	*4,783,461
Energy—Total annual (kilowatt-hours) Per cent change	1958 1957	22,633,438,156 22,076,428,819 2.5	3,034,644,968 2,791,545,958 8.7		28,381,884,967 27,404,936,421 3.6
Loads					
PRIMARY AND SECONDARY					
Peak—Annual maximum (kilowatts) Per cent change	1958 1957	4,459,367 4,104,579 8.6	469,048 459,117 2.2	489,121 406,880 20.2	- ,
Energy—Total annual (kilowatt-hours) Per cent change	1958 1957	25,486,481,756 25,716,135,919 0.9	3,133,555,628 2,819,625,136 11.1		31,450,379,846 31,100,756,759 1.1
Primary Only					
Energy—Total annual (kilowatt-hours) Per cent change		22,633,438,156 22,076,428,819 2.5	3,034,644,968 2,791,545,958 8.7	2,713,801,843 2,536,961,644 7.0	28,381,884,967 27,404,936,421 3.6

^{*}These annual maxima are the arithmetic sums of the three non-coincident system peaks in December. In the two northern divisions the annual maximum does not necessarily occur in December.

kilowatt-hours were produced by 65 hydro-electric and 4 thermal-electric generating stations operated by the Commission; the balance was purchased. Primary energy produced for use in Ontario amounted to 28 billion kilowatt-hours, about 3.6 per cent more than in 1957.

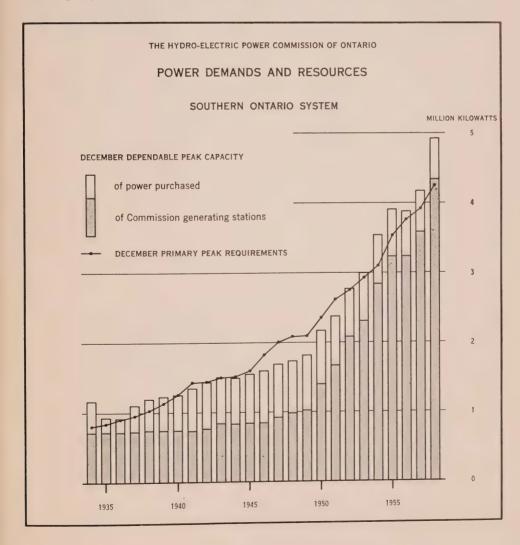
Stream-Flow and Storage Conditions

Water conditions generally in Ontario were less favourable during the greater part of 1958 than during the previous year. In the southern areas of the Province the spring freshet, which did not begin until late

April, was of short duration. As a result lake-levels in the southern watersheds remained below normal until autumn. Similar conditions prevailed in northeastern areas until heavy rains in late August and September restored water storages to their normal levels. In the northwest section of the Province stream-flows on the English and Albany River watersheds did not improve until after mid-year, too late to enable the water held in storage to reach normal levels in 1958. Water conditions elsewhere in the area, however, were satisfactory throughout the year.

SOUTHERN ONTARIO SYSTEM

Although new resources were available at Sir Adam Beck-Niagara Generating Station No. 2 and also at Robert H. Saunders-St. Lawrence Generating Station, hydro-electric output in the Southern Ontario System was slightly less than in 1957, largely as the result of unfavourable water

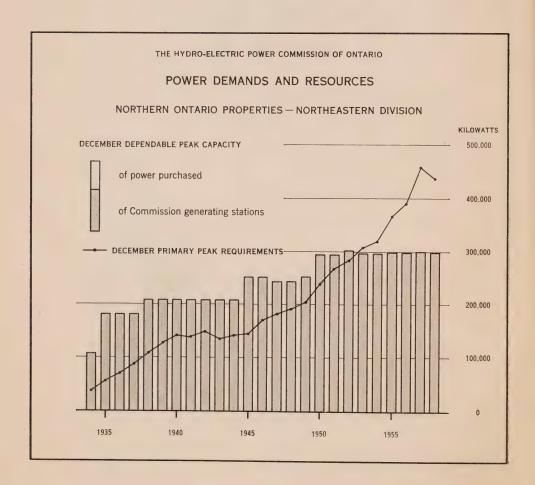


conditions. The summary statistical table on page 114 indicates a decrease of 4.2 per cent in the energy output of generating stations, which was offset by purchases from other suppliers. The purchase of relatively inexpensive hydro-electric energy permitted a substantial reduction in the more costly output of thermal-electric generating stations. Late in the year parallel operation was successfully established between the Southern Ontario System and the Power Authority of the State of New York, and operation in parallel has since become the normal practice. Parallel operation with Quebec Hydro is expected to become normal procedure in the early future.

The primary peak in the system occurred on December 16 and amounted to 4,252,715 kilowatts, 8.6 per cent greater than the primary peak demand of last year.

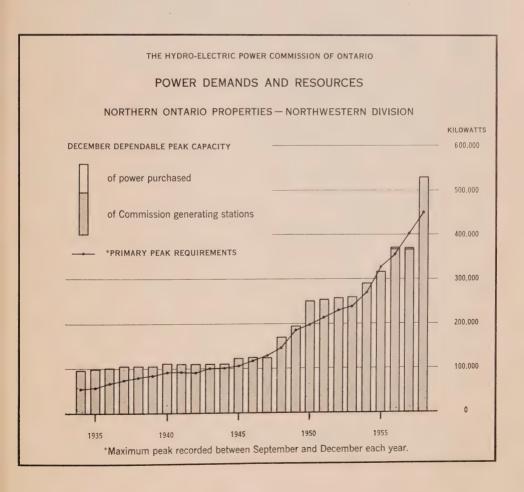
NORTHERN ONTARIO PROPERTIES

The output of hydro-electric resources in the Northeastern Division was only slightly greater in 1958 than in 1957 and in order to meet increased energy demands, the interconnection with the Southern Ontario System was



used exclusively for the purpose of transferring power to the Northeastern Division. The primary peak demand for the year, which normally occurs in the fall, occurred in February and amounted to 453,199 kilowatts, 1.3 per cent below the primary peak demand in 1957; the primary peak demand in December 1958 was 437,468 kilowatts. Primary energy requirements we're 8.7 per cent greater than those in 1957.

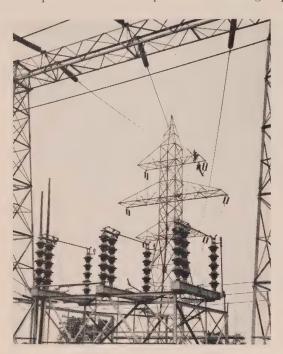
Output in the Northwestern Division was increased substantially with the placing in service of Whitedog Falls Generating Station and Caribou Falls Generating Station and the addition of single units at each of Manitou Falls, Cameron Falls, and Alexander Generating Stations. Primary peak demands, which reached 448,821 kilowatts in December, showed a growth of 10.3 per cent during the year. Primary energy requirements, up 7.0 per cent over 1957, increased at a rate substantially lower than the 12.0 per cent recorded in the previous year, reflecting the slackening in the pace of industrial growth in the Division.



MAINTENANCE OF THE SYSTEMS

Mechanical and Electrical Maintenance

There was a notable decrease in the extent of major overhauls during 1958, attributable in part to the effectiveness of routine maintenance and the present standard practice of doing repair welding on turbine runners



High above the ground, line-construction crews install insulators on the 230-kv double-circuit, steel-tower line between St. Lawrence Transformer Station and Hinchin-brooke Switching Station 102 miles to the west. Construction of this line was part of the program of work under way in 1958 to incorporate the output of the Robert H. Saunders-

St. Lawrence Generating Station into the system.

in place. Another contributing factor was that most of the older units had been recently overhauled and a great many new units had not yet reached the stage where dismantling was required.

The runner blade edges of two turbines at Chats Falls Generating Station were modified to increase their resistance to cavitation and cracking. Three water-lubricated lignum-vitae turbine bearings, two at Sir Adam Beck-Niagara Generating Station No. 1 and one at DeCew Falls Generating Station No. 2, were replaced by oil-lubricated babbit bearings.

Among the more significant outages of rotating equipment during the year were three large units showing failure of field connections or field insulation and four units with stator winding failure. Epoxy resin was applied to replace abraded insulation to the end coils of the

stator windings on eight large units. This relatively simple operation effected repairs at a small fraction of the normal cost of taping and varnishing.

Twenty-four power transformers were given complete overhaul, six of them after failure in service. One oil-type and two air-blast, 230-kv circuitbreakers required extensive repairs after operating failure.

Lines and Communications

Maintenance was carried out on a number of 230-kv lines without removing them from service. Specially designed live-line tools are being used for the replacement of cable-type vibration dampers by torsional dampers of more modern design on the original 230-kv lines from Chats

Falls Generating Station. Maintenance of air-break switches is also being



Wearing heavy rubber and leather gloves this lineman can handle in perfect safety live power lines transmitting up to 5,000 volts.

carried out without service interruption by the use of recently developed tools.

Rehabilitation was carried out on about 40 miles of 44-kv line in the East Central Region. A section of 115-kv cable between Toronto-Leaside and Toronto-Glengrove Transformer Stations was relocated to accommodate roadway alterations.

Following discovery that the lead sheath on the 115-kv cable between Hamilton-Kenilworth and Hamilton Beach Transformer Stations was subject to dangerously high direct-current potentials, cathodic protection was

installed to prevent corrosion. On other underground installations two new

types of corrosion-protective coating were introduced—polyethylene coating and self-vulcanized rubber coating.

Over 17,000 transmission, distribution, and communication poles were replaced by maintenance crews during the year. Just over 400 steel towers were cleaned and repainted as part of the regular program, many of them without interruption to service.

Fifty-five mobile frequency-modulation radio installations were completed, bringing the total now in use in the mobile radio system to 569. In the



A new technique is used to place protective rubber hose and hoods on 8,000-volt transmission lines. The rubber provides a safety shield through which maintenance and repairs can be carried out.

extension of voice communication to meet expanding operation requirements, the Commission's facilities were further integrated with those of The Bell Telephone Company. Major installations were made by the Company at new generating stations and other Commission properties.

The Commission has seven helicopters engaged in line patrol and operations for the control of brush on transmission line rights of way.



One of the Commission's helicopters sprays herbicide to control the growth of vegetation along transmission-line routes. In northern Ontario approximately 6,400 acres were sprayed in this way in 1958.

They were in flight for a total of 3,700 hours during the year, patrolling 163,000 circuit miles of high-voltage line and spraying herbicide on isolated rights of way to the extent of 6,400 acres in the two northern regions. Including the area sprayed from the air, the use of chemicals generally for control of brush growth was extended to well over 40,000 acres during 1958.

Forestry

In an effort to curb the rapidly growing incidence of Dutch elm disease, elm trees on Commission properties were treated with insecticide during the year. The disease, spreading gradually into Ontario from the

United States, has now reached disturbing proportions. Other forestry work involved tree pruning and tree removal on more than 10,900 miles of the Commission's transmission and distribution line in operation, and nearly 1,500 miles of newly constructed or municipally owned line. As part of the conservation program, 66,500 seedling trees were planted on Commission properties in the Eastern and Northeastern Regions.

SECTION II

FINANCE

THIS section of the Report, together with Appendix II, deals with the financial operations of the Commission as they relate to the Southern Ontario System and the Northern Ontario Properties. The financial operating results for the municipal electrical utilities are reported in a municipal service supplement at the end of the Report.

The Commission's revenue comes from three principal sources—municipal utilities and interconnected systems purchasing power for resale, industrial customers served directly by the Commission, and other customers served by Commission-owned retail distribution facilities. Gross revenues in 1958 amounted to \$201,259,225, and the total cost of providing service established at the year end was \$197,690,110. The difference of \$3,569,115 was credited, \$2,828,164 to cost-contract municipalities in the Southern Ontario System, \$38,868 to cost-contract municipalities in the Northwestern Division of Northern Ontario Properties, and the remainder to the Rural Power District stabilization of rates reserve for the Southern Ontario System and to the surplus account arising from supply of power to customers served for the account of the Province of Ontario.

The balance sheets and operating statements for the Southern Ontario System and the Northern Ontario Properties are included in this section of the Report together with a statement of funded debt and a schedule of Provincial advances outstanding. Supporting schedules for these basic

statements are to be found in Appendix II beginning, for the Southern Ontario System, on page 128, and for the Northern Ontario Properties, on page 162. The two statements of the cost of power in Appendix II itemize for each cost-contract municipality its share of the total costs incurred and its contribution under interim rates to the Commission's revenue.

Data Processing

An event of importance during the year was the installation and initial operation of Univac II, which is the central electronic feature of what will be a province-wide integrated data processing system to handle customer, personnel, and materials information, and a wide variety of analyses and reports for management control.

The main electronic components were delivered in May and, after a period of testing, were ready for service in August. By the end of the year a system for handling customer information from the regions had been developed. Final testing procedures indicated that, with respect to rural operations, all reports, customers' bills, and control information will be processed through the system early in 1959. The communications network was completed to link area offices to their respective regional offices in the Toronto and West Central Regions, and these regional offices in turn to Head Office. The network will be extended to the other seven regions in 1959.



DATA-PROCESSING EQUIPMENT — In 1958 the Commission accepted delivery of the main components of an electronic data-processing system. Here an operator sits at the controls of the central computer, which is the focal part of the system.

The analysis of the system for handling personnel data was completed and the system will be introduced in 1959. It will include payroll, labour



DATA-PROCESSING EQUIPMENT — The power-supply unit of the high-speed printer is examined by members of the Data Processing Division during installation.

statistics, and other information relative to Commission employees. The centralization of inventory records has been completed as the first stage in the development of the materials system.

The electronic computer has also been used for several complex scientific and engineering computations.

OPERATING RESULTS—1957

In both operating statements, proceeds from the sale of certain secondary energy, for the most part 25-cycle, are shown as an offset against cost rather than as revenue as in former years. The total amount representing these sales was \$5,560,369 of which \$5,096,253 apply to the Southern Ontario System and \$464,116 to the Northern

Ontario Properties. In the comparison of 1958 results with those of 1957, allowance has been made for this change in presentation, and year to year changes are calculated on the 1957 basis. In effect, gross revenues of the Com-

mission rose by \$6,023,123 or 3.0 per cent and the cost of providing service by \$6,321,797 or 3.2 per cent. These changes are analysed in some detail for the Southern Ontario System and for the Northern Ontario Properties in turn.

A substantial reduction in fuel and other operating costs at thermal-electric stations as compared with those in 1957 was sufficient to offset in large part the increases in all other aspects of



INSTALLATION OF UNIVAC II — To the uninitiated the interior of the central computer is a maze of wires. The specialist is prepared to deal with 200 miles of wiring, 5,600 tubes and 18,000 crystal diodes in the assembly of this unit.

operating costs during 1958 with the result that these costs in total were up only 2.5 per cent from those in 1957. Interest and fixed charges increased by slightly more than 3.7 per cent, a normal reflection of the expansion in fixed assets. These increases were in large part counterbalanced by reductions in the amounts set aside for stabilization of rates and contingencies, for nuclear power development, and for amortization of the costs of frequency standardization. (See notes to the Cost of Power Statements on pages 152-153 and 168-169.)

SOUTHERN ONTARIO SYSTEM

Gross revenues at \$166,005,358 exceeded comparable revenues in 1957 by 1.3 per cent, while costs at \$162,909,905 increased by 1.6 per cent. In these comparisons allowance is made for the \$5,096,253 from the sale of secondary energy, chiefly 25-cycle. These revenues and costs apply to the sale of 23,285,785,750 kilowatt-hours, the Southern Ontario System share of total sales as shown in the table on pages 116 and 117.

Operating costs, including the cost of purchased power, were up from those of 1957 by less than 1 per cent. The remainder of the rise in cost of providing services includes increases of 11.7 per cent in interest, 12.6 per cent in depreciation provisions, and 8.8 per cent in funds set aside for the retirement of capital debt. The 12.6 per cent increase in depreciation provision reflects a change in the rural asset life table adopted as of January 1, 1958 and includes \$2,100,000 appropriated to make up the accumulated deficiency in the reserve on the new basis at that date. Total costs were not substantially greater than those in 1957 because the foregoing increases were offset to a large extent by lower special provisions for stabilization of rates and contingencies, and by a considerable reduction in the amount set aside to amortize the cost of frequency standardization. This last item of cost is dealt with in detail in the notes to the Cost of Power Statement on page 153.

The deduction from cost of \$398,686 for matured sinking fund is the sum of the amounts credited to the accounts of 135 municipal utilities, and representing their matured portion of sinking fund allocations for the retirement of the Commission's capital debt. For 18 municipal utilities the cost of power was reduced to \$46.26 per kilowatt per annum by the application of the annual interest on a fund set aside in previous years for this purpose. The corresponding cost ceiling in 1957 was \$46.23. The average cost per kilowatt to utilities in the Southern Ontario System for 1958 was \$37.20 as compared with \$36.86 in 1957.

The cost of frequency standardization work done during the year was \$19,080,041, including the \$6,291,994 of equipment and supplies by which the inventory was reduced in 1958. An amount of \$7,220,345 plus interest of \$7,545,750 was charged to the cost of power, and \$96,106 spent on standardization of rural facilities was recovered from rural revenues. The amount to be written off in future years was increased by \$11,763,590 to a total of \$191,961,575 at the end of 1958.

Table of Expenditures by The Hydro-Electric Power Commission of Ontario on Frequency Standardization

	Prior to 1958	During 1958	Total at Dec. 31, 1958	Amounts amortized or to be amortized
Southern Ontario System	. \$	\$	\$	\$
Standardization of customers' equipment and system facilities (charged to frequency standardization		40.000.00		400 400 04
account)	312,597,705	18,983,935	331,581,640	139,620,065
nance, and administrative expense)	1,609,492	96,106	1,705,598	1,705,598
	314,207,197	19,080,041	333,287,238	141,325,663
Expenditures on inventory of equipment, supplies and other assets Amount to be written off in future	8,181,473	6,291,994	1,889,479	
yearsValue of equipment, supplies and				191,961,575
other assets for future standardiza-				1,889,479
Total expenditures	322,388,670	12,788,047	335,176,717	335,176,717
Northern Ontario Properties Standardization of customers' equip-			4 ((4 0 7 7	
Amortized to December 31, 1958	355,055	4,306,922	4,661,977	922,337
years				3,739,640
	355,055	4,306,922	4,661,977	4,661,977

NORTHERN ONTARIO PROPERTIES

During 1958 the Commission's sales amounted to 5,347,533,809 kilowatt-hours, the Northern Ontario Properties share of total sales as shown in the table on pages 116 and 117. Gross revenues at \$35,253,867 exceeded by 11.9 per cent comparable revenues in 1957. Cost-contract utilities in the Northwestern Division provided an increase of slightly more than 5 per cent in revenue, rural customers a substantial 23.9 per cent and other customers served for the account of the Province an increase of nearly 10.4 per cent. The cost of providing service to all customers, at \$34,780,205 rose also by 11.9 per cent and the cost of service to rural customers by 12.0 per cent. The 23.9 per cent growth in rural revenues is therefore reflected in considerably improved results for rural operations, the deficiency of revenue, at \$226,320, being lower than for any other year in the past ten years.

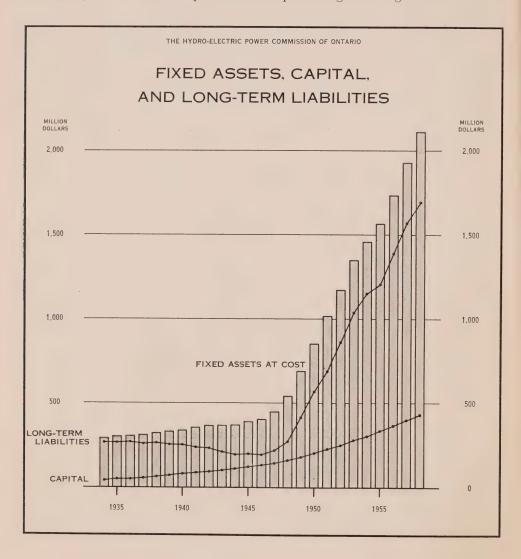
Operating costs of \$16,859,956 were 9.1 per cent greater than in 1957. This increase reflects the substantially greater energy loads experienced in 1958, which in turn required the transfer of more kilowatt-hours from the Southern Ontario System, and a 31.4 per cent increase in total cost of energy so transferred. There were increases of 28.0 per cent in interest charges, 14.3 per cent in depreciation provisions and 26.7 per cent in funds set aside for the retirement of capital debt. These increases in operating costs were offset to a considerable extent by reducing the allocation to

reserves for stabilization of rates and contingencies below last year's allocation by \$921,098.

The cost of frequency standardization in the Northeastern Division of the Northern Ontario Properties was \$4,306,922 in 1958. An amount of \$283,572 plus \$92,463 in interest on the outstanding balance was charged in the current year's operations, and after allowance for a credit of \$283,710 in the frequency standardization account at the end of 1957 there remained a balance of \$3,739,640 to be written off in future years.

SUMMARY OF FINANCIAL POSITION

The gross expenditure on fixed assets during the year amounted to \$190,656,003 of which 66 per cent was spent on generating facilities. The



Robert H. Saunders-St. Lawrence and Richard L. Hearn Generating Stations account for well over half the total spent on generating facilities. Additional or improved rural facilities represent \$19,555,659 or slightly over 10 per cent of the total gross expenditure. After allowing for sales and retirements amounting to \$13,287,083 there was a net increase of \$177,368,920 in the investment in fixed assets bringing the total to \$2,107,975,634. This total includes \$238,908,547 in rural fixed assets. Accumulated depreciation had been provided on total fixed assets to the extent of \$229,465,177.

The funds required by the Commission for capital investment and other purposes in 1958 were obtained from sources as shown in the table below. All figures are net changes in the balance sheet items, 1958 as compared with 1957.

These funds were required for:

Additions to fixed assets \$ Frequency standardization to be written off in future	177,369,000
* *	15,787,000
years Additions to reserve fund investments	8,197,000
	504,000
Addition to deferred expenses	304,000
Repayment of debenture debt and Provincial	21 122 000
advances	
Total required	232,979,000
·	
These funds were obtained from:	
Increase in debenture debt\$	150,000,000
Operating charges not requiring a cash outlay	
Depreciation allowance	21,516,000
Reserves	23,737,000
	27,434,000
Sinking fund	27, 13 1,000
Provincial assistance for rural construction, and	1 127 000
Surplus (NOP)	1,127,000
Reduction in inventories	8,594,000
Reduction in inventories	571,000

The total assets of the Commission at December 31, 1958 after deducting accumulated depreciation and the inter-system account were \$2,421,226,156 as compared with \$2,254,503,479 at December 31, 1957. The long-term debt at December 31, 1958 was \$1,691,478,426 as compared with \$1,572,600,993 at the end of 1957. Net capital of \$429,654,307 at December 31, 1958 included \$300,371,932 used for the retirement of long-term debt, \$15,344,991 for sinking fund investment, \$113,538,494 in Provincial contributions for rural assistance, and \$398,890 of surplus arising from service to customers in Northern Ontario Properties supplied for the account of the Province.

THE HYDRO-ELECTRIC POWER

SOUTHERN

BALANCE SHEET

Α	S	S	E	Τ	S

FIXED ASSETS AT COST:		
Power System\$ Administrative and service buildings and equipment Rural Power District	1,503,496,801 28,974,496 202,672,592	
Less accumulated depreciation	1,735,143,889 188,197,391 \$	1,546,946,498
Frequency Standardization:		
Equipment, supplies, and other assets for future standardization work\$ Cost of completed standardization after charging \$139,620,065 to reserves and cost of power—balance to be written off	1,889,479	
in future years	191,961,575	193,851,054
Current Assets:		2,0,002,002
Cash in banks	766,596 6,000,000	
value. Working funds Power accounts receivable. Other accounts receivable.	4,500,000 211,845 20,803,080 4,246,793	
Interest accrued on investments held for general reserves Customers' securities on deposit Prepayments and sundry deposits	983,397 288,550 184,682	37,984,943
Inventories Held for Operation, Maintenance, and Construction:		
Coal at cost\$ Other materials and supplies at cost Tools and equipment at cost less depreciation	14,312,926 16,217,297 13,662,754	44,192,977
Deferred Charges and Other Assets:		11,1,2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Debenture discount and expense less amounts written off\$ Agreements, mortgages, and sundry investments. Exchange discount on funded debt. Accounts receivable in annual instalments. Deferred work orders and other assets.	17,933,274 348,170 3,859,876 587,253 4,175,917	
D		26,904,490
Reserve Fund Investments: Government and government-guaranteed bonds Investments held for special reserves at amortized cost plus accrued interest (approximate market value \$88,683,000)		
Pension fund\$ Employer's liability insurance fund Employees' savings and insurance fund Investments held for other reserves at amortized cost (approximate market value \$95,565,000)	94,403,356 3,240,378 792,823	
Stabilization of rates and contingencies Sinking fund	91,091,882 9,584,381	199,112,820
	•	2 049 002 792

Auditors' Report

We have examined the balance sheet of the Southern Ontario System of The Hydro-Electric Power Commission of Ontario as at December 31, 1958, and the statement of operations for the year ended on that date. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statement of operations present fairly the financial position of the Southern Ontario System of the Commission as at December 31, 1958 (subject to the trusts which prevail in respect thereto) and the results of the operations for the year ended on that date.

\$ 2,048,992,782

COMMISSION OF ONTARIO

ONTARIO SYSTEM

AS AT DECEMBER 31, 1958

LIABILITIES, RESERVES, AND CAPITAL

LIABILITIES, RESERVES, AND CAPI	ITAL	
LONG-TERM LIABILITIES (at par of exchange) including \$12,208,706 maturing in 1959: Funded debt	258,227,045	
Advances from the Province of Ontario\$45,242,426 Less advances for Northern Ontario Properties 7,993,994 ———————————————————————————————————	1,388,008,955 37,248,432 ***	1,425,257,387
Current Liabilities: Accounts and payrolls payable and accrued charges\$ Customers' deposits	30,837,366 828,548 14,499,768 1,413,197	47,578,879
SPECIAL RESERVES: Pension fund\$ Employer's liability insurance fund Employees' savings and insurance fund Exchange premium received on funded debt	94,388,176 3,059,690 823,275 4,746,301	103,017,442
GENERAL RESERVE: Stabilization of rates and contingencies		120,123,458
CAPITAL: Sinking fund reserve: Represented by— Funded debt and Provincial advances retired through sinking funds\$247,861,538 Sinking fund investments and cash9,632,989 Contributed capital:	257,494,527 95,521,089	
Province of Ontario, assistance for rural construction		353,015,616
	\$	2,048,992,782

Note: Commitments under uncompleted contracts for the construction of fixed assets, approximately \$105,000,000.

NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power Commission of Ontario in BALANCE SHEET

ASSETS

Fixed Assets at Cost:	
Power System \$ 333,739,246 Administrative and service buildings and equipment 2,856,544 Rural Power District 36,235,955	
\$ 372,831,745	
Less accumulated depreciation	563,959
Frequency Standardization:	
Cost of completed standardization after charging \$922,336 to cost of power—balance to be written off in future years	739,640
Current Assets:	
The Hydro-Electric Power Commission of Ontario—current account. \$ 1,413,197 Cash in banks. \$ 414,064 Working funds. \$ 46,855 Power accounts receivable. \$ 523,709 Other accounts receivable. \$ 523,709 Rural Power District grants receivable. \$ 696,531 Interest accrued on reserve fund investments. \$ 161,046 Customers' securities on deposit. \$ 457	
8,	482,396
Inventories Held for Operation, Maintenance, and Construction:	
Materials and supplies at cost	,088,185
Deferred Charges and Other Assets:	
Debenture discount and expense less amounts written off. \$3,253,880 Exchange discount on funded debt. 164,093 Account receivable in annual instalments 1959-1989 1,835,599 Deferred work orders and other assets 1,303,570	,557,142
Reserve Fund Investments:	
Government and government-guaranteed bonds at amortized cost	
(approximate market value \$18,574,000) Held for—Stabilization of rates and contingencies reserve\$ 15,495,805 5,719,444	,215,249
21	,213,249

Auditors' Report

We have examined the balance sheet of the Northern Ontario Properties, held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario and municipalities supplied with power at cost, as at December 31, 1958, and the statements of operations and surplus for the year ended on that date. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statements of operations and surplus present fairly the financial position of the Northern Ontario Properties as at December 31, 1958 (subject to the trusts which prevail in respect thereto) and the results of the operations for the year ended on that date.

CLARKSON, GORDON & CO. Chartered Accountants.

\$ 373,646,571

PROPERTIES

Trust for the Province of Ontario and Municipalities Supplied with Power at Cost AS AT DECEMBER 31, 1958

LIABILITIES, RESERVES, AND CAPITAL

Long-Term Liabilities (at par of exchange) including \$2,536,980 maturing in 1959: Funded debt	5 4 -\$ 266,221,039
Current Liabilities:	
Accounts and payrolls payable and accrued charges \$ 2,100,09 Customers' deposits \$ 5,444,69 Interest accrued on long-term liabilities \$ 2,629,64	8
Special Reserve:	
Exchange premium received on funded debt	176,489
General Reserve: Stabilization of rates and contingencies	20,435,921
CAPITAL:	
Sinking fund reserve: Province of Ontario	6
Funded debt and Provincial advances retired through sinking funds\$ 52,510,394 Sinking fund investments 5,712,002	
\$ 58,222,396	
Contributed capital:	_
Province of Ontario, assistance for rural construction 18,017,40 Surplus arising from supply of power to customers served for the	
account of the Province of Ontario	00 76,638,691
	\$ 373,646,571

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

STATEMENT OF OPERATIONS for the Year Ended December 31, 1958

	Power System	Rural Power District	Total
Cost of Power: Cost of power purchased Operation, maintenance and administrative expenses. Interest (including interest on funded debt and reserves, less interest earned on investments) Frequency standardization: Interest	44,620,222 7,545,750	\$ 11,672,050 3,755,630	\$ 13,819,110 55,151,639 48,375,852 7,545,750
Portion of cost written off. Depreciation. Stabilization of rates and contingencies provision: Stream-flow variation. Nuclear research. Sinking fund provision—contribution to system capital. Interchange of power with Northern Ontario	5,363,660 2,436,293 12,655,670 147,808,156	7,607,127 1,070,943 24,105,750	7,220,345 18,274,644 5,363,660 2,436,293 13,726,613 771,913,906
Properties Sale of 25-cycle secondary energy (Note) Credit resulting from matured sinking fund Cost of power supplied to Rural Power District Total, including provision for stabilization of rates	3,509,062 5,096,253 398,686 138,804,155 17,064,444	24,105,750 17,064,444	3,509,062 5,096,253 398,686 162,909,905
Amounts Billed: Municipalities (at interim rates) Direct industrial customers and interconnected	96,507,830	41,170,194	96,507,830
systems Local distribution system customers Rural customers Total	27,974,067 85,978 124,567,875	41,437,483	27,974 067 85,978 41,437,483 166,005,358
Excess of amounts billed over cost of power	2,828,164 2,828,164	267,289 267,289	3,095,453 2,828,164 267,289

Note: In 1958 proceeds from the sale of 25-cycle secondary energy were deducted from the cost of power. In previous years these proceeds were included in amounts billed to direct industrial customers.

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario and municipalities supplied with power at cost

STATEMENT OF OPERATIONS for the Year Ended December 31, 1958

	Customers served for the account of the Province of Ontario			Munici-	
	Rural Power District	Other customers	Total	supplied with power at cost	Total
Cost of Power: Cost of power purchased	\$	\$ 607,086	\$ 607,086	\$	\$ 607,086
Operation, maintenance and administrative expenses Interest (including interest on	1,744,883	10,998,925	12,743,808		12,743,808
funded debt and reserves, less interest earned on investments). Frequency standardization:	658,697				10,944,303
Interest	964,801	92,463 283,572 2,409,294	283.572		92,463 283,572 3,374,095
tingencies provision: General Nuclear research Sinking fund provision—contribu-		829,732 563,707			829,732 563,707
tion to system capital	$\frac{182,853}{3,551,234}$	2,907,764 28,978,149	3,090,617		3,090,617
Interchange of power with Southern					
Ontario System		3,509,062 464,116	464,116		464,116
matured sinking funds		721,729	721,729		721,729 34,852,600
Cost of power to municipalities supplied at cost				2,600,374	
Cost of power supplied to Rural Power District	2,252,427			72 205	
rates reserve Total, including provision for, and withdrawal from stabilization of				72,395	72,395
rates reserve	5,803,661	26,448,565	32,252,226	2,527,979	34,780,205
AMOUNTS BILLED: Municipalities supplied with power				2,566,847	2,566,847
at cost (at interim rates) Fixed-rate municipalities Direct industrial and other cus-	-	2,194,997	2,194,997		2,194,997
tomersLocal distribution system customers Rural customers	5,577,341	2,095,297	2,695,297 5,577,341		22,219,385 2,695,297 5,577,341
Total		27,109,679	32,687,020	2,566,847	35,253,867
Excess or deficiency of amounts billed over cost of power	220,320	661,114	434,794	38,868	473,662
Credited to municipalities on an nual adjustment			434 794	38,868	38,868 434,794
Transferred to Statement of Surplus Note: In 1958 proceeds from the	e sale of se	condary ene	rgy were de	ducted from	the cost of

Note: In 1958 proceeds from the sale of secondary energy were deducted from the cost of power. In previous years these proceeds were included in amounts billed to direct industrial and other customers.

Statement of Surplus for the Year Ended December 51, 1700	705 611
Balance at credit January 1, 1958	725,611
Deduct allowance for additional depreciation on distribution and other facilities of	
1 D Down District	761,515
the Kurai Fower District.	434,794

Balance at credit December 31, 1958.....\$ 398,890

THE HYDRO-ELECTRIC POWER

FUNDED DEBT AS AT

Guaranteed as to principal and interest

Date of maturity	Callable at par on or after	Date of issue	Interest rate
January 1, 1960 March 15, 1960 March 15, 1961 February 15, 1962 March 15, 1962 March 1, 1963 March 1, 1963 March 15, 1963 October 15, 1963 March 15, 1964 May 15, 1964 July 2, 1964 October 15, 1964 April 1, 1965 December 15, 1965 January 15, 1966 March 1, 1966 March 1, 1966	on or after January 1, 1955 March 15, 1959(e) March 15, 1959(e) March 15, 1959(e) March 1, 1961 March 1, 1962 March 15, 1959(e) March 15, 1959(e) May 15, 1962 July 2, 1960 October 15, 1963 April 1, 1964 December 15, 1963 January 15, 1964 March 1, 1965	January 1, 1945 March 15, 1954 March 15, 1954 February 15, 1957 March 15, 1954 March 1, 1948 March 1, 1955 March 15, 1954 October 15, 1954 November 15, 1957 May 15, 1954 July 2, 1948 October 15, 1956 April 1, 1957 December 15, 1948 January 15, 1956 March 1, 1957	per cent 3 2.60 2.65 43/4 2.70 3 3 2.75 4 2.80 5 3 41/2 5 3 3/4 4 31/2
May 1, 1966 January 15, 1967 March 15, 1967 April 1, 1967 April 1, 1967 November 1, 1967 November 1, 1968 April 15, 1968 October 1, 1968 July 15, 1969 July 15, 1969 November 1, 1969 January 1, 1970 October 15, 1970 May 15, 1971 June 1, 1971	May 1, 1964 January 15, 1965 March 15, 1965 March 15, 1964 April 1, 1964 November 1, 1964 November 1, 1964 January 15, 1966 April 15, 1966 October 1, 1965 July 15, 1966 July 15, 1966 November 1, 1967 April 1, 1968 October 15, 1969 May 15, 1956(a) June 1, 1961 September 1, 1956(a)	May 1, 1951 January 15, 1952 March 15, 1953 April 1, 1949 April 1, 1947 November 1, 1952 November 1, 1952 July 15, 1952 October 1, 1947 July 15, 1953 July 15, 1953 November 1, 1949 January 1, 1930 April 1, 1950 October 15, 1958 May 15, 1951 June 1, 1946 September 1, 1951	3 / 2 4 1/4 3 2 3/4 4 1/4 3 4 1/4 4 1/4 4 1/4 4 1/4 4 1/4 3 4 3/4 4 1/2 3 1/4 3 1/4 3 1/4 3 1/4 3 1/4
September 1, 1972 June 15, 1973 July 15, 1974 October 15, 1974 February 1, 1975 August 15, 1975 January 15, 1976 November 15, 1977 April 1, 1977 March 1, 1977 March 1, 1978 October 15, 1978 November 1, 1978 May 15, 1979 October 15, 1979 March 15, 1980 May 15, 1980	June 15, 1971 July 15, 1972 October 15, 1972 February 1, 1958 August 15, 1972 January 15, 1974 November 15, 1974 March 1, 1975 April 1, 1974 March 1, 1976 October 15, 1976 November 1, 1958(d) May 15, 1974 October 15, 1974 March 15, 1974	June 15, 1950 July 15, 1956 October 15, 1956 February 1, 1953 February 15, 1957 January 15, 1956 November 15, 1957 March 1, 1955 April 1, 1957 March 1, 1958 October 15, 1958 November 1, 1953 May 15, 1954 October 15, 1954 March 15, 1954	3 4 4 1/2 3 1/4 4 3/4 4 4 5 3 1/2 5 5 35/8 3 1/2 3 1/2 3 1/8 3 1/8
Outstanding at January 1, Less redemptions during y	1958ear	Summary of changes	in funded debt
Outstanding at December	31, 1958		

 ⁽a) Callable at 101.
 (b) Payable in U.S. funds.
 (c) Held by Province of Ontario and having terms identical with issues sold in the United States by the Province of Ontario, on behalf of the Commission.
 (d) Callable at 102½.
 (e) Callable at a premium of ½% for each year or fraction thereof between call-date and

COMMISSION OF ONTARIO

DECEMBER 31, 1958

by the Province of Ontario (except issues marked *)

Pri	ncipal outstanding December 31, 195	8
Southern Ontario System	Northern Ontario Properties	Total
\$	\$	\$
308 000(b)	7,200,000	7,200,000
308,000(b) 3,861,000(b)	*****	308,000*(b) (c) 3,861,000*(b) (c)
9,593,000	2,995,000	12,588,000
3,624,000(b)		3,624,000*(b) (c)
23,564,000	7,343,000	30,907,000
23,220,000		23,220,000
3,354,000(b)	6,700,000	3,354,000*(b) (c)
13,300,000 3,240,000(b)	0,700,000	20,000,000 3,240,000*(b) (c)
4,089,500	9,598,000	13,687,500
13,327,500	1,160,000	14,487,500
26,186,500	13,457,000	39,643,500
13,124,500	1,757,500	13,124,500 18,245,000
16,487,500 43,671,000	1,757,500	43,671,000
12,005,000	2,166,500	14,171,500
31,888,000	6,479,000	38,367,000
23,440,000	5,111,000	28,551,000
47,102,500	432,500	47,535,000
36,169,000 11,463,000	32,244,000	36,169,000 43,707,000
10,678,455	3,996,545	14,675,000
20,258,500	1,812,000	22,070,500
33,064,000		33,064,000
37,000,000	6,300,000	43,300,000
46,033,500	5,800,000	46,033,500 19,250,000
13,450,000 34,132,000	3,800,000	34,132,000
24,837,000		24,837,000
38,000,000	11,500,000	49,500,000
11,700,500		11,700,500
48,498,000	5,300,000	53,798,000 5,500,000
3,700,000 46,503,000(b)	1,800,000 2,890,000(b)	49,393,000*(b) (c)
13,745,000	4,290,000	18,035,000
43,307,000(b)		43,307,000*(b) (c)
52,000,000	2,300,000	54,300,000
42,670,000	7,000,000	49,670,000 26,740,000
26,740,000 47,861,000(b)		47,861,000*(b) (c)
25,300,000	12,000,000	37,300,000
42,500,000	7,500,000	50,000,000
10,875,000	25,375,000	36,250,000
27,000,000	13,000,000	40,000,000 81,500,000
73,500,000	8,000,000 6,400,000	36,500,000
30,100,000 33,000,000	16,500,000	49,500,000
44,010,000(b)	5,000,000(b)	49,010,000*(b) (c)
31,500,000	3,500,000	35,000,000
41,975,000	8,000,000	49,975,000 29,920,000*(b) (c)
29,920,000(b) 41,133,000(b)	3,320,000(b)	44,453,000*(b) (c)
1,388,008,955	258,227,045	1,646,236,000
during year ended Decemb		
\$1,300,393,955	\$225,729,545	\$1,526,123,500
24,385,000	5,502,500	29,887,500
\$1,276,008,955	\$220,227,045	\$1,496,236,000
112,000,000	38,000,000	150,000,000
\$1,388,008,955	\$258,227,045	\$1,646,236,000
following currencies:	\$247,017,045	\$1,367,905,000
\$1,120,887,955 267,121,000	11,210,000	278,331,000
	\$258,227,045	\$1,646,236,000
\$1,388,008,955	103 prior to March 15, 1961, at ½% less d	uring each three-year period prior t

maturity. (f) Callable at 103 prior to March 15, 1961, at ½% less during each three-year period prior to March 15, 1976, and thereafter at par. (g) Callable at 103½ prior to May 15, 1963, at ½% less during each three-year period prior to May 15, 1978, and thereafter at par.

THE HYDRO-ELECTRIC POWER

ADVANCES FROM THE PROVINCE OF

Repayable to the Province in accordance with the terms of Province

	Date of maturity	Description	Interest rate
May May January June May December	15, 1959-1968 15, 1959-1970 15, 1959-1971 1, 1959-1971 1, 1959 2, 1960	Annuity bonds Annuity bonds Bonds	per cent 4 4½ 4½ 4½ 5 5
	Total advances (at par of e	xchange)	
	1	Summary of changes in adva	nces from the Province
Balances o Less repay	of advances at January 1, 195 ments during year	58	
Balances o	of advances at December 31,	1958	

COMMISSION OF ONTARIO

ONTARIO AS AT DECEMBER 31, 1958

of Ontario bonds issued in part for the purposes of the Commission

Balances of advances outstanding December 31, 1958 (Payable in Canadian, United States, or Sterling funds)

Southern Ontario System	Northern Ontario Properties	Total
\$	\$	\$
4,890,813	330,321	5.221.134
4,241,552	1,027,930	5,269,482
2,413,474	592,850	3,006,324
3,062,326	1,130,134	4,192,460
11,129,972	2,328,952	13,458,924
11,510,295	2,583,807	14,094,102
37,248,432	7,993,994	45,242,426

of Ontario during year ended December 31, 1958

\$38,283,884 1,035,452	\$8,193,609 199,615	\$46,477,493 1,235,067
\$37,248,432	\$7,993,994	\$45,242,426

SECTION III

THE COMMISSION'S CUSTOMERS

THE Commission's deliveries of energy in bulk amounted in total to 28,848,376,452 kilowatt-hours in 1958, an increase of 1.2 per cent over deliveries in 1957. Of this total 51.6 per cent was supplied to the 354 associated municipal utilities and 29 Commission-owned local distribution systems for the supply of their retail customers, and 8.6 per cent was delivered to the Commission's 103 rural operating areas for sale to rural customers. The remainder, which included 8,540,888,276 kwh of primary and 2,935,791,499 kwh of surplus energy, was supplied 11.0 per cent to certain interconnected utilities for resale and 28.8 per cent to a number of industrial customers served directly by the Commission. Comparative statistics for bulk deliveries in 1957 and 1958 are given in the table on page 115. These are supplemented on pages 116 and 117 by an analysis of the distribution of energy to ultimate customers of the Commission and its associated utilities.

Commentary on the retail distribution of electricity is reserved, for the most part, for the municipal service supplement beginning on page 195. In that section of the Report the service provided through Commission-owned local systems is considered in conjunction with the activities of the municipal electrical utilities. The retail aspects of rural service, however, are discussed together with bulk supply to the rural operating areas in a subsection of Section III. Supporting statistics, the schedule of rates, and a brief description of the classes of service are to be found in Appendix III.

MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

The number of municipal systems associated with The Hydro Electric Power Commission in its province-wide distribution of electricity was increased by four during 1958. The villages of Pickering and Deep River

became cost-contract customers of the Commission on July 1 and August 1 respectively to bring the total number of municipalities served under cost contract in the Southern Ontario System to 327. Pickering was formerly supplied through the facilities of the rural distribution system and Deep River was served by Atomic Energy of In the Northern Canada Ltd. Ontario Properties the number of cost-contract customers was unchanged at 8, the number of fixedrate municipal customers was raised to 19 when Rainy River on August 1 entered into an agreement to take power from the Commission, and White River was served by the Commission for the first time as a local system on March 18 bringing the number of local systems to 29.

The municipal utilities are billed monthly at an interim rate per kilowatt of peak load. The THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

MUNICIPAL ELECTRICAL UTILITIES

AND LOCAL SYSTEMS

PRIMARY POWER AND ENERGY DELIVERED

BILLION

KWH
30

*Power

20

*Power

20

10

Annual Energy

10

110

Annual Energy

110

110

110

110

monthly peak load for any customer represents the maximum average demand over a period of twenty consecutive minutes in the month. As the system peak load usually occurs in December, the peak loads for that month are given for municipal systems in the table of load statistics in Appendix I. The sum of these loads in 1958 was 3,117,381 kilowatts, an increase of 10.4 per cent over the 2,824,187 kilowatts supplied in 1957. The energy supplied to the municipal utilities and local systems in 1958 was 14,889,000,611 kilowatt-hours, an increase of 7.0 per cent over the 13,910,368,728 kilowatt-hours supplied in 1957.

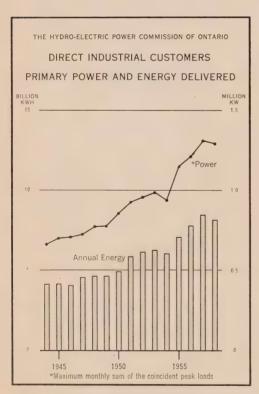
The full import of the part that Ontario Hydro plays in the Provincial economy can be gauged only when consideration is given to the Commission's relationship to the associated municipal utilities and their contribution in turn in providing electrical service to the ultimate customer. Their identity as separate units is preserved in the tables of statistics and financial reports that form the major part of the municipal service supplement beginning on page 195. The books of account from which the financial information is derived are kept by the utilities in accordance with a standard accounting system designed by the Commission for use by all its municipal customers.

These books are periodically inspected by the Commission's municipal accountants and from time to time adjustments and improvements in accounting and office routine are recommended as the requirements of standardized methods may dictate. In many of the smaller municipalities much of the accounting is undertaken on behalf of the utilities by municipal accountants of the Commission. This type of work or supervision is directed towards ensuring the correct application of the standard accounting system and the uniform classification of revenues and expenditures, but it does not constitute an audit of the accounts.

Approval was given by the Commission to the reduction of retail rates in 79 utilities and local systems in view of their sound financial position and the current relationship of revenue and expense. It was necessary to increase retail rates in 8 municipal systems to enable them to meet their costs of operation.

DIRECT INDUSTRIAL CUSTOMERS AND INTERCONNECTED SYSTEMS

The industrial customers served directly by the Commission include mines in relatively isolated areas, and industrial customers of many types whose requirements for power may exceed the supply capability of the local



rural or municipal facilities. addition the Commission has contracts governing the supply or the interchange of power with certain independent utilities both within and beyond the borders of the Province. In the past, sales to these interconnected systems have been included in a miscellaneous category with sales to industrial customers. As power utilities they are not industrial customers of the Commission in the generally accepted sense. This year they have been excluded from the table of power and energy supplied to industrial customers and their loads have been deleted from the historical chart on this page. On the revised basis the number of direct industrial customers being supplied by the Commission at December 31, 1958 was 205 as compared with 209 at December 31, 1957.

The sum of the coincident primary peak loads of the Commission's industrial customers on the revised basis reached a monthly maximum of 1,292,918 in January 1958. This represents a decrease of 1.4 per cent from

Primary Power and Energy Supplied to Direct Industrial Customers, By Types of Industry

	Average monthly 1	e of the beak loads	Annual ener	Increase or decrease	
Type of industry	1957	1958	1957	1958	
	kw	kw	kwh	kwh	per cent
Pulp and Paper	279,458	303,672	1,916,335,986	2,055,636,239	7.3
Mining:					
(a) Gold	85,570	87,544	573,939,308	585,592,708	2.0
(b) Silver and Cobalt	3,802	3,741	19,394,580	19,523,266	0.7
(c) Base Metals	221,886	197,466	1,535,692,618	1,302,267,006	15.2
(d) Uranium	40,547	87,455	250,475,754	591,132,117	136.0
(e) Non-Metals	6,150	6,495	28,908,098	28,598,881	1.1
Quarrying, Cement, and Basic Building					
Materials	40,851	40,539	245,695,773	234,504,442	4.6
Steel and Electro-Metallurgical	172,867	126,240	985,020,159	635,276,469	35.5
Abrasives	79,325	52,809	629,873,825	403,893,727	35.9
Chemical, Electro-Chemical, and Cyanamid	203,155	209,854	1,580,934,727	1,614,423,720	2.1
Grain Elevators and Milling	8,084	8,232	29,332,210	31,524,890	7.5
Transportation Services and Communications	7,867	7,806	38,338,502	32,192,107	16.0
Government Services and Institutions	23,484	22,300	113,900,363	128,294,169	12.6
General Manufacturing	93,750	96,441	435,674,754	419,565,834	3.7
Miscellaneous	10,415	7,073	58,221,734	35,471,660	39.1
Total	1,277,211	1,257,667	8,441,738,391	8,117,897,235	3.8

the September maximum of 1,311,247 in 1957. The annual kilowatt-hour consumption in 1957 and 1958 is given by types of industry in the accompanying table together with comparative figures on peak loads. Since peak load in any one month does not offer a reasonable basis for comparison of one industry with another, the table gives the average of the monthly peaks for each industry.

Analysis of Primary Loads by Types of Customer

Energy consumption by industrial customers served directly by the Commission declined by 3.8 per cent during 1958. Increases in consumption at rates somewhat below those in 1957 were registered by customers in the pulp and paper, mining, chemical and electro-chemical industries. The major contribution to the increase in mining loads was a 136 per cent increase in the uranium mining load. These increases, together with moderate increases in government services and in grain elevators and milling, were more than offset by a 35.5 per cent decline in loads in the steel and electro-metallurgical industry. The abrasives industry loads were also down by more than 35 per cent.

The corresponding primary peak and primary energy loads of the interconnected systems were 57,403 kilowatts in 1958 as compared with 59,746 kilowatts in 1957 and 422,991,041 kilowatt-hours in 1958 as compared with 424,841,154 kilowatt-hours in 1957. This represents a decrease in peak load of 4.0 per cent and a decrease in energy load of 0.4 per cent.

Surplus Energy Sales

Sales of surplus energy amounted in total to 2,935,791,499 kilowatthours, 2,737,537,938 kilowatthours being delivered to interconnected systems and 198,253,561 to direct industrial customers.

RURAL ELECTRICAL SERVICE

The net increase during the year of 1,063 miles in rural distribution lines in service was a considerable advance over the 883-mile expansion in 1957. The growth in number of customers, 18,992 during 1958, was well below the 23,556 increase in 1957 reflecting a slackening in the rate of increase in hamlet service customers and a decline of 261 in the number of farm services. This decline is attributable in large part to the annexations of rural areas by expanding municipalities. This accounts also for the decline of nearly 5,000 residential service customers in the West Central Region; the increases in numbers of residential service customers in the other regions, however, were sufficient to offset this decline and to register a net increase of 11,545 customers in this class of service.

At the end of 1958 a total of 472,603 customers were being served over 46,438 miles of rural primary distribution lines. Farm service customers represented 29.7 per cent of the total number served while hamlet and rural residential service represented 43.9 per cent and summer service 18.1 per cent.

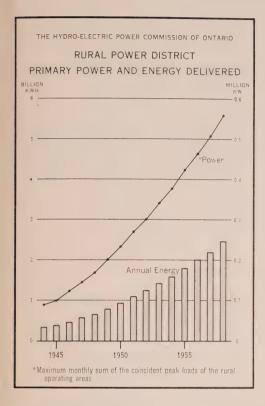
Rural Power District

NET INCREASE IN MILEAGE OF PRIMARY LINES AND NUMBER OF

CUSTOMERS DURING 1958

		Number of customers							
	Miles of primary line	Residential			Summer				
System and Region		Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
SOUTHERN ONTARIO SYSTEM									
Western	55.74	124	3,495	869	217	40	187	22	3,216
West Central	92.18	203	3,067	7,847	144	14	247	59	4,925
Niagara	14.04	178	1,174	23	137	5	42	9	1,202
Toronto	23.62	386	2,169	92	150	2	116	24	1,931
Georgian Bay	235.13	119	4,647	2,802	195	73	2,321	9	4,324
East Central	237.94	65	4,503	2,505	139	66	1,702	14	3,984
Eastern	258.10	384	3,565	1,817	161	28	621	20	2,962
Total	685.15	313	22,620	15,725	855	214	5,004	39	12,694
Northern Ontaric Properties									
Northeastern	265.04	57	3,053	728	498	18	568	55	4,977
Northwestern	112.93	5	1,574	705	164	38	247	8	1,321
Total	377.97	52	4,627	23	662	56	815	63	6,298
Total—All systems	1,063.12	261	27,247	15,702	1,517	270	5,819	102	18,992

Italic figures indicate decreases.



Load Growth

The monthly sum of the coincident peak loads of the rural operating areas was highest for the year in December when it reached 558,366 kilowatts. This represents an increase of 9.8 per cent over the maximum of 508,404 kilowatts in 1957. A corresponding increase in energy supplied to the areas raised the total by 12.7 per cent from 2,203,026,343 kilowatt-hours in 1957 to 2,482,696,066 kilowatt-hours in 1958.

All classes of rural service showed increases in consumption ranging from 7.8 per cent for farm service to 23.1 per cent for power service, and for all services these increases were proportionally greater than the corresponding increases in number of customers served. The average consumption

per customer, therefore, was substantially higher for all classes of service.



ELECTRICITY SERVES THE FARM — Electricity provides light and circulates fresh air in this modern dairy barn.

The major change was the 13.3 per cent growth in average consumption for power service.

Of the five classes of service, power service, with an 18.2 per cent increase, showed the largest growth in revenue.

Capital Investment

The net increase in the cost of rural distribution facilities amounted to \$13,977,056 in 1958. Of the total investment in rural distribution facilities at the end of the year amounting to \$238,908,547 the Province had contributed \$113,538,494.

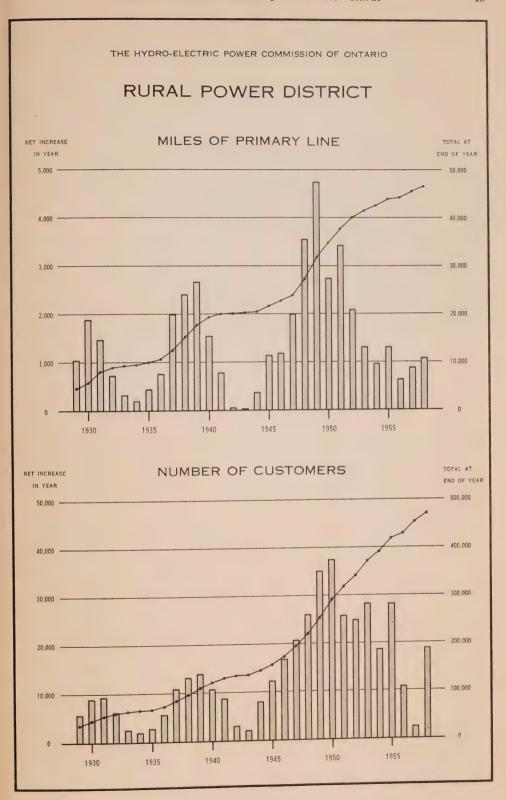
REPORTS FROM THE REGIONS

Western Region

With the continuing growth of many municipalities in the Western Region the activities of municipal electrical utilities were expanded in 1958. In Chatham the municipal load was increased by 875 kilowatts when lines were extended to serve an industrial power customer, and additions were made to serve about 1,800 customers in an area annexed by the city at the turn of the year. Other municipal annexations were responsible



ELECTRIC DAIRY EQUIPMENT — Surrounded by electrically operated equipment required in modern dairying, a farmer prepares an electric milking machine for use.



for expansion by utilities in Blenheim, Ridgetown and St. Thomas. In Exeter new staff were appointed to carry out municipal operations, previously the responsibility of the staff of the Exeter Rural Operating Area.

Improvements to municipal electrical distribution systems included the construction of a number of transformer substations of harmonious and pleasing design. In St. Thomas a new 2,000-kva substation was built and two other stations were modernized. At Sarnia a 4,000-kva bungalow-type substation was placed in service. In London the capacity of one substation was doubled to 10,000 kva. Eventually the electrical network in the downtown area of London will have twice its present capacity. Other improvements included substantial extensions to distribution lines and the installation of additional street-lighting equipment.

Street-lighting in the commercial section of Wallaceburg was extended and modernized. Similar work was carried out during the year in Windsor, Ailsa Craig, Harrow, Strathroy and Tecumseh. In Lambeth the main street was lighted by new mercury-vapour units. New service buildings were constructed in Petrolia, Amherstburg, Hensall and Sandwich West.

Throughout the year municipal electrical utilities in the region continued an active and vigorous program of public relations. In conjunction with the Commission's province-wide promotional activities, customers in municipalities were encouraged to make greater use of electricity. Attractive water-heater rental plans were developed and put in operation. In Norwich, work was begun on the installation of a wired radio water-heater control system. New flat rates for water-heaters, which provide lower charges for fast-recovery heaters, were adopted in 26 municipalities in the region. A recently built electrically heated house was favourably regarded by prospective purchasers in Amherstburg. Rates for heating houses electrically were established in 24 municipalities; general rate changes in 18 municipalities also encouraged the greater use of electricity.

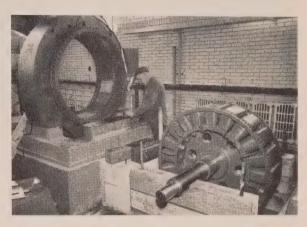
As a result of these activities the excellent relations between the utilities and their customers were maintained while the application of electricity in modern living was demonstrated in a practical manner.

West Central Region

General retail rate reductions were effected in fifteen municipalities in the region during 1958, while special rates for house heating and new rates for flat-rate water-heaters were adopted by a large number of electrical utilities. These efforts to encourage the wider use of electricity were supported by numerous additions and improvements to municipal electrical distribution systems. Transformer capacity was increased with the placing in service of substations at Acton, Brantford, Brantford Township, Galt and Hamilton. A number of municipalities also carried out work designed to improve street-lighting standards. In Hamilton, for example, a total of some 1,300 lighting units together with arrangements and connections for the new Skyway suspension bridge were installed. Similar work on a

reduced scale was carried out in Brantford, Hagersville, and Wellesley. Several other electrical utilities replaced incandescent lighting units on main thoroughfares with fluorescent or mercury-vapour lighting. In most municipalities rebuilding and rehabilitation of distribution systems, which were carried out in conjunction with frequency standardization operations, were completed during the year as the standardization program drew to a

close. Other improvements included the removal of overhead distribution lines and the development of underground distribution systems. At Brantford a beginning on an underground system was made in the business area of the town where three transformer vaults were installed below ground level. In Hamilton, customers previously supplied from the 6,600-volt underground system were transferred to the 4,160-volt distribution



FREQUENCY STANDARDIZATION — A large electric motor in the process of being rewound for operation at 60 cycles.

system. Underground cables were also installed to supply 15,000 kilowatts to a large industrial power user in the city.

Municipalities which annexed adjacent areas were required to carry out extensive planning to provide for the incorporation of large numbers of customers into their distribution systems. The entire Township of Nelson and a section of East Flamboro Township were annexed by Burlington, involving the transfer of 8,200 rural customers and approximately 190 miles of rural primary line. Similarly in Saltfleet Township, adjacent to Hamilton, some 660 acres were annexed by the city. This in turn involved the transfer of 164 customers and 223 miles of rural primary line to the municipal system. An annexation took place also at Kitchener where 407 customers were taken over by the municipality.

In general, municipalities in the region stressed the benefits available to customers through the greater use of electricity, particularly for residential purposes. This was the keynote of their activities during the year, and resulted in an expanded water-heater program as well as the introduction of favourable rate changes.

Niagara Region

During 1958, municipal substation capacity was increased at Merritton by 3,000 kva and at Niagara Falls by 2,500 kva. New substations were placed in service in these municipalities to meet increased loads, which resulted largely from service to several new housing developments. Improvements were made also to street-lighting in Niagara-on-the-Lake, Stamford



SIR ADAM BECK-NIAGARA GENERATING STATION NO. 2 — This view of the generator floor shows the exciters of the 16 units in service at the station. The final two units were installed during 1958.

Township, Welland, and Port Dalhousie, where modern fluorescent lighting units were installed. During the year new administrative offices were provided at Port Colborne and Thorold. At Welland a substation building was remodelled and equipped for use as a storehouse and service centre. The extensions and improvements to municipal distribution systems generally, which were carried out in conjunction with the regional frequency standardization program, were completed with the standardization of the Niagara Falls filtration plant.

A general reduction in retail rates was put into effect in Port Dalhousie during the year, and five municipalities in the region introduced special rates for house heating. New rates for flat-rate water-heaters were adopted in two other municipalities.

Toronto Region

The high density of population in the Toronto Region, which provides a constantly growing market, accounted for the substantial increase in the number of electrical services provided and the need for expanded transformation capacity.

The total number of customers served by municipal electrical utilities in the region reached approximately 505,000 by the end of the year, an increase during the year of about 7 per cent. Almost a third of this increase

was in North York Township, where over 10,000 new customers received service in 1958. Seven of these new customers were industrial users requiring large blocks of power at 27.6 kv. In Scarborough Township an additional 8,200 services were installed and in Etobicoke Township 4,600 new customers were supplied. Comparable growth was registered also in the smaller municipalities. Richmond Hill with a population of less than 11,000 added 700 new customers. Elsewhere throughout the region a further 8,000 new

customers were supplied with power.

Increased demands for power were met by the placing in service of additional transformation facilities. In the area of Metropolitan Toronto alone 11 substations with capacities of 4,000 to 5,000 kva were constructed by municipal utilities. The combined 25- and 60-cycle peak demand in Toronto in 1958 amounted to 569,099 kilowatts, an in-



This information trailer fitted with a variety of electrical appliances will be used to demonstrate the many applications of electricity to modern living.

crease of approximately 2 per cent over that of 1957. The 60-cycle peak demand of the system was 541,900 kilowatts, about 18 per cent greater than in 1957. The growth in 60-cycle demand in part reflects the progress of frequency standardization operations in the city. Customers still served at 25-cycle frequency in the northern part of the city and in Leaside will have their equipment changed to 60-cycle operation by July 1959.

In order to provide the administrative services required, a number of municipalities in the Toronto Region built new offices, garages, or warehouses. Substantial building was carried out in Brampton, East York Township, Forest Hill, and Weston. A number of municipalities promoted the use of flat-rate water-heaters. Direct sales and rental programs for water-heaters were undertaken by municipal utilities in Weston and the Townships of East York, Etobicoke, Toronto and Trafalgar. An added inducement to the customer to increase his use of electricity was the offer of free service on electrical components of water-heaters put forward by several municipalities.

During the year, retail rate adjustments were made in seven municipalities in the region. In addition 19 municipal electrical utilities adopted a special house-heating rate for residential services, while 14 utilities introduced new schedules of rates for flat-rate water-heaters.

Georgian Bay Region

New loads in the Georgian Bay Region in 1958 required the installation of additional transformer capacity in Collingwood, Hanover, Midland and Walkerton. Further improvements to municipal distribution systems were carried out at Lucknow where radial-wave-type street lights were replaced by fluorescent luminaires, and in Bracebridge where lighting in the main business area was modernized with 400-watt mercury-vapour units. In Tara the voltage on the municipal system was changed from 4,160/2,400 volts to 8,320/4,800 volts during the year. In this way the construction of an additional distributing station was avoided and satisfactory voltage regulation was provided. A high-frequency control system was placed in operation in Meaford early in 1958 for the control of flat-rate water-heaters.

Considerable interest in electric heating equipment was evident among a large number of customers in the region in 1958. In the course of the year 11 installations of major electric heating equipment were made. Adjustments to retail rates were put in effect in 12 municipalities, thereby providing for lower costs to the ultimate customer. In addition 36 municipal utilities adopted the revised rates for electric house-heating, and 9 utilities reduced flat-rate water-heater rates.

East Central Region

Municipal electrical utilities in the East Central Region continued a vigorous program of expansion during 1958 which resulted in improved service to their customers and greater efficiency of operation. An extensive program of work undertaken in Trenton eliminated the 6,600-volt supply of power from Sidney Generating Station so that all power was delivered to the municipality at 44 kv. This work required the rebuilding of two municipal substations as well as the construction of new 44-kv lines. Kingston greater service security was provided for customers in the western section of the city when a 44-ky tie-line from Frontenac Transformer Station was placed in service. In addition a new substation with an initial capacity of 3,000 kva was built there. Transformation capacities were increased also in Cobourg where the municipal utility purchased a 4,000-kya substation from the Commission, and in Whitby when a new 5,000-kva substation relieved overloads on the municipal system. A substation in Oshawa recently purchased from the Commission will be rebuilt shortly to a capacity of 10,000 kva. A 44-kv transmission line built by the Commission from Ross L. Dobbin Transformer Station was tied into the municipal distribution system of Peterborough to provide a third source of power supply to the city. Security there was further increased by the installation of two automatic reclosing outdoor circuit-breakers on the 44-ky lines. During the year the distribution systems of Millbrook and Warkworth were completely rehabilitated. Major improvements were made also to lighting systems in Brighton and Picton. Both these municipalities installed modern fluorescent or mercury-vapour luminaires on main thoroughfares. Administrative quarters were expanded in Ajax, where office workers moved to a spacious new building.

The first installation of electric house-heating equipment in the region was made at Oshawa. The model home in which the equipment was installed was open to public inspection. A substantial market for electrically heated houses is expected to develop in this area. Special rates for house heating were introduced by 22 municipalities during the year and general retail rate adjustments were made to customers of 8 municipal utilities. Thirteen municipalities also adopted the new rate schedules for flat-rate water-heaters.

Beginning July 1, 1958 the village of Pickering was supplied with power at cost by the Commission. Previously it had been served through rural facilities. The load on the municipal system is about 600 kilowatts.

Eastern Region

The construction of the St. Lawrence Power project overshadowed other activities in the Eastern Region during 1958. Most municipal electrical utilities, however, were active in carrying out plans to improve their distribution systems. In Ottawa the number of customers served at the end of the year was 80,521, an increase of 4 per cent over the number in 1957. Increasing demands for power in the city were met by extending distribution lines and increasing the transformation capacity available.



ST. LAWRENCE POWER PROJECT — The Village of Morrisburg lies close to the new shoreline of the St. Lawrence River. The raising of the headpond level required the relocation of the eastern section of the village, and the establishment of the entire commercial area in the new shopping centre shown in the foreground.



ST. LAWRENCE POWER PROJECT—The Village of Long Sault is one of two new municipalities created as a result of the construction of the project. It incorporates the former villages of Mille Roches and Moulinette.

Three new substations with a total capacity of 26,000 kva were placed in service. Nine miles were added to the underground cable circuits and some 3 miles of duct line were installed. Electrical utilities in other municipal centres also carried out projects to improve service to customers. At the municipal generating station in Almonte the utility arranged for the installation of control equipment which would automatically close down operations in the event of trouble. Transformation capacity at the utility's substation was increased by the addition of a 2,000-kva transformer. During the year the number of customers in Brockville was substantially increased when the city annexed part of a neighbouring township. A 3,000-kva substation was constructed at this time to assist in meeting demands for power and as the first step in the conversion to a grounded distribution system. Rehabilitation programs were undertaken in Richmond and Rockland where improvements to street-lighting arrangements were also made. A number of utilities improved street-lighting by installing mercury-vapour units. In Ottawa alone 480 new lighting units were installed.

On August 1, 1958 the Improvement District of Deep River became a cost-contract customer of the Commission. Previously power had been supplied to the municipality by Atomic Energy of Canada Limited. In order to serve Deep River, power was stepped down from 115 kv to 12 kv. A municipal substation stepped the power down further for supply to the local distributing system.

During the year, adjustments to general retail rates were made in 18 municipalities in the region. Special rates for house heating were introduced by 5 municipal electrical utilities while 6 adopted the new rate schedules for flat-rate water-heaters.

Northeastern Region

Customers in a number of municipal centres are served directly by the Commission and in these the Commission's regional staff continued a program of work to expand and improve service during 1958. Transformation capacities were increased in Schumacher, South Porcupine, Swastika and Timmins. In Blind River and Mattawa, Commission forces carried out improvements to the distribution systems, and in New Liskeard established a multiple street-lighting system. Similar work was also carried out in other municipalities during the year by the local commissions. Mercuryvapour street-lighting units were installed in Cache Bay, Capreol, Kapuskasing, Sudbury and Thessalon. Retail rates were reduced in five municipal systems and increased in two. In Kapuskasing an off-peak control system for flat-rate water-heaters was installed. Five utilities introduced the new flat-rate water-heater schedules. The 25-cycle equipment of customers in the region was standardized for 60-cycle operation during the year. Preparatory work had been begun during 1957 and in February 1958, standardization crews began the work of conversion. By mid-August operations were completed and all municipal and rural customers in the northeast were being supplied at 60 cycles.



OTTER RAPIDS — Down stream from the site of the new station on the Abitibi River, prepar atory work for a construction camp is in progress. The Bailey bridge provides access to the work area.



SILVER FALLS GENERATING STATION — A 350-foot fall in a stretch of the Kaministikwia River provides the head for this single-unit generating station. A tunnel almost 2 miles in length will carry water from Dog Lake to the station. The surge tank tower in the middleground marks the location of the tunnel.

Northwestern Region

Transformer station capacity in Port Arthur was increased in 1958 to meet requirements for additional power. A new 4,000-kva substation was placed in operation in the city, and the capacities of two other stations were doubled during the year. Improvements to the municipal distribution system in Nipigon Township were also carried out, and modern street-lighting equipment was installed. General improvements were made in other municipalities in the region, all of them designed to provide better service to customers. The Atikokan municipal load was increased by 1,300 kilowatts when arrangements were completed to supply a new industrial customer.

Two more municipalities in the region became customers of the Commission in 1958, White River as a local system and Rainy River under a fixed-rate agreement. Retail rates to customers in Schreiber Township were reduced and new rates for flat-rate water-heaters in Port Arthur were introduced. Two other municipalities established new rates for house-heating equipment.

PUBLIC RELATIONS AND SERVICES TO CUSTOMERS

Several events of favourable significance combined during 1958 to engender unusually high public interest in the Commission's affairs. As a prime example, the international aspect and the broad economic implications of the St. Lawrence Power Project focussed attention on ceremonies

marking the flooding of the headpond in July and the official opening of Robert H. Saunders-St. Lawrence Generating Station in September.

A public-speaking contest, sponsored throughout the Province jointly by the Commission and the Ontario Educational Association, evoked a wide-spread and enthusiastic response on the part of primary and secondary pupils seeking information on the Commission's activities and the relation of these activities to the everyday applications of electric power. In this way, and through the favourable publicity that subsequently developed, the contest admirably reinforced the "Live Better Electrically" program. This program, inaugurated in December 1957, was widely publicized during 1958 with the support of supplementary promotional programs by the municipal utilities. It is being continued and extended during 1959.

More than a million persons visited power developments and other engineering projects of the Commission during the year. The interest of the public at large was met by the distribution of a number of publications such as the monthly issues of *Hydro News*, by the showing of documentary films, and by informational addresses by various members of the Commission and the staff.

Industrial Surveys

Eighty-seven industrial power-factor surveys were carried out for customers served either by the Commission or the municipal utilities. Frequently the installation of capacitors by the customer will result in a reduction in his power bill, and in turn benefit the local utility and the Commission by improving the system power factor. Following the surveys, the Commission made recommendations for the installation of a total of 8,737 kva of capacitors.

Lighting

The services of lighting specialists were made available to customers with problems of lighting schools, offices, churches, public buildings, industrial and commercial locations, or with plans to improve street lighting or to provide flood-lighting for various purposes. Plans and specifications were drawn up for 273 lighting installations, 110 of these being for schools.

Inspection

Electrical installations are governed by regulations made by the Commission under The Power Commission Act. Each installation must be covered by a permit and approved by an inspector before being connected to the power supply. A revised edition of *Electrical Inspection Regulations* was published during the year, incorporating changes recently introduced into

the Canadian Electrical Code, Part I. These amendments deal more specifically with installations in anaesthetizing areas in hospitals, outdoor flood-lighting, fixed electric space-heating, induction and dielectric heating, and with sound recording and reproduction.

The Commission is also constantly vigilant in establishing and maintaining standards for the manufacture of electrical equipment. Every effort is made to prevent the sale or use of any such equipment that is known to be unsafe.

The evidence of electrical inspection indicates that 10 fatal accidents and 8 fires in the Province were directly attributable to electrical causes during the year. In a number of other fires investigated, damage to buildings was extensive, and it was not possible to establish conclusively that defective wiring was or was not a contributory cause of these fires.

SECTION IV

FREQUENCY STANDARDIZATION

BY the end of 1958 the Commission's program of frequency standardization, now in its tenth year, was nearing completion. In 1957 the program had been extended to include standardization of 25-cycle areas in the Northeastern Division. The area of the Province in which power was supplied at 25-cycle frequency, originally some 12,000 square miles in extent in the Southern Ontario System alone, had been reduced to about 20 square miles in North Toronto and Leaside. A few large industrial plants will continue to be supplied as originally planned at the lower frequency, but by July, 1959, the standardization of all customer-owned equipment, with these few exceptions, will be essentially completed. The year under review, therefore, is the last full year of operation in the frequency standardization program.

In the beginning it was estimated that some 784,000 customers would be involved, that on the average there would be 2.7 frequency-sensitive items to be standardized or replaced for each domestic customer and that the program would be completed in 1964. In the years that followed, the program was subject to almost continuous expansion, first because of population growth within the Province, and second because of the remarkable increase in the variety of frequency-sensitive items in use. This increase is reflected in the average of 5.8 frequency-sensitive items per domestic customer encountered in the Toronto area during the past year.

Throughout the period of the program the cost of labour and materials has continued to rise. The effect of these increases in costs has been alleviated to some extent by economies in operation and in methods of standardization which have been developed as the program progressed. With the equipment of 98 per cent of the total customers in the program standardized at the end of December 1958, the total expenditure on frequency standardization work by the Commission for the work done since the inception of the program was \$339,838,694.

At the beginning of 1958, work was being carried out from bases in Toronto, Simcoe, Brantford, and the Niagara Region. Upon completion of the work in the Simcoe area in February, the work force there moved to

PROGRESS OF FREQUENCY STANDARDIZATION BY CLASSES OF SERVICE

	Services standardized		Customer moves		Frequency-sensitive items standardized	
Class of service	During 1958	Total to Dec. 31, 1958	During 1958	Total to Dec. 31, 1958	During 1958	Total to Dec. 31, 1958
Domestic: Southern Ontario System Northeastern Division Total domestic	50,989 17,722 68,711	739,493 17,722 757,215	7,997*	138.080*	308,238 78,847 387,085	3,887,766 78,847 3,966,613
Commercial: Southern Ontario System Northeastern Division Total commercial	6,800 2,365 9,165	87,573 2,365 89,938	344*	2.898*	99,040 24,600 123,640	1,019,751 24,600 1,044,351
Power: Southern Ontario System	1,562 191 1,753	14,843 191 15,034	30*	498*	43,778 2,094 45,872	813,655 2,094 815,749
Total Southern Ontario System	59,351 20,278 79,629	841,909 20,278 862,187	8,371*	141,476*	451,056 105,541 556,597	5,721,172 105,541 5,826,713

^{*} These figures combine customer moves chargeable to the program in the Southern Ontario System with those chargeable to the program in the Northeastern Division.

the Northeastern Region where preparations had been made during 1957 to extend the benefits of frequency standardization to customers not originally included in the program. During the ensuing six months this work group completed the standardization of the equipment of some 20,000 customers over a wide area of the region. As work was completed in each of the areas, the base offices were closed, leaving only the North Toronto crews operating at the end of the year.

All the techniques for achieving economies in standardization work which have proved so effective over the past years are being continued and extended in their applications.

Just over a third of the more than 150,000 motors used during 1958 in the standardization of customers' equipment were 25-cycle motors rewound for 60-cycle use. About 40 per cent of the rewinding was done in the Commission's Service Shop at the A. W. Manby Service Centre. The Service Shop also did the necessary work on about half the 11,000 salvaged controls for oil burners, timers, and other components when these controls

were changed over for 60-cycle operation. The need for this kind of service declined sharply during the year as operations tapered off and material requirements for the balance of the program had been largely

provided for. The Service Shop was therefore closed on July 25 after more than eight years' operation. In this eight-year period approximately 220,000 single-phase and 46,000 polyphase motors had been changed over to 60-cycle frequency in addition to a large number of miscellaneous items.

More than 5,000 salvaged motors that could not be economically rewound were sold during the year. Over 57,000



FREQUENCY STANDARDIZATION — Technicians in the meter and relay shop calibrate metering equipment during standardization operations.

meters of various kinds were changed over for 60-cycle operation in the Meter Shop at A. W. Manby Service Centre. Other motors and components that could not be reclaimed for use were sold as scrap to the extent of some 7,000 tons.

The financial aspects of the standardization program are discussed elsewhere in the Report (see page 23). One item on the Commission's balance sheet, the inventory of equipment and material, is closely related to the work program. Every effort is being made to ensure that the substantial stores inventory which it has been necessary to maintain will be reduced to a minimum at the end of the program, and arrangements have been made with major suppliers for the return of surplus up-to-date equipment after the work has been completed.

SECTION V

PLANNING, ENGINEERING, AND CONSTRUCTION

ON September 5, 1958 the international powerhouse structure which is the central feature of the St. Lawrence Power Project was officially placed in service by the Hon. Leslie M. Frost, Prime Minister of Ontario, and the Hon. W. Averill Harriman, Governor of New York. The proceedings marked the completion of just over four years of extensive construction activity on the part of the Commission and the Power Authority of the State of New York as joint participants in the Project. The Commission's generating station forming the Canadian half of the power-house structure, when it is complete, will have an installed capacity of 940,000 kilowatts. The production of power from the waters of the St. Lawrence River has been the goal of some 50 years of study and negotiation. The attainment of this objective marks the end of hydro-electric development on a large scale in the Southern Ontario System.

System and Program Planning

The Commission, at the end of 1958, was engaged in the construction of generating station developments which will increase the capacity of its resources by more than two million kilowatts during the four-year period to the end of 1962. Nearly two-thirds of this increase will be in thermal-electric generation. Of the hydro-electric capacity at present in the construction program, over two-thirds will be progressively placed in service during 1959 as the Robert H. Saunders-St. Lawrence Generating Station



ST. LAWRENCE POWER PROJECT — In conjunction with the powerhouse, the Long Sault dam, a curved-axis spillway, some 2,960 feet in length, controls the level of the water in the headpond. Up stream from the dam high points of land have become islands in the headpond.

is brought to completion. There are still a number of hydraulic sites in the north which may eventually lend themselves to economic development, but there is no likelihood that, taken by themselves, they can be simultaneously exploited in sufficient numbers to meet the present high annual rate of growth in demands for power. The Commission proposes, therefore, to meet load growth by co-ordinated development of thermal-electric stations and those remaining hydraulic sites which prove economically feasible.

Present planning assumes that there will be no additional hydraulic developments in the northwestern part of the Province until after the placing in service of the first 100,000-kilowatt unit at Thunder Bay Generating Station. In southern Ontario most of the remaining undeveloped power sites are in the eastern part of the Province. Transmission lines from this area are already heavily loaded for the transmission of power from the Robert H. Saunders-St. Lawrence Generating Station and from Quebec suppliers to areas of heavy load in central Ontario. The development of new generating capacity in the eastern part of the Province will likely be deferred, therefore, until local loads are sufficient to make use of the additional power. This will avoid the necessity of adding materially to high-voltage transmission lines.

In the Northeastern Division of the Northern Ontario Properties a number of hydraulic sites are expected to prove economic for development. With the present interconnection between the Division and the

Summary of Ontario Hydro's Power Development Program—1945-1962 as at December 31, 1958

System and Development	No. of units	In service	Capacity*
SOUTHERN ONTARIO SYSTEM			kw
DeCew Falls (extension)—Niagara Region	3	1947	57,000
Stewartville—Madawaska River		1948	63,000
Des Joachims—Ottawa River		1950—1951	372,000
Chenaux—Ottawa River	6	1950—1951	117,000
	4	1951—1953	400,000†
	4	1959—1960	800,000†
J. Clark Keith—Windsor Otto Holden—Ottawa River. Sir Adam Beck No. 2—Niagara River. Pumping Generating Station	4	1951—1953	264,700†
	8	1952—1953	210 000
	16	1954—1958	1,200,000†
	6	1957—1958	170,000†
Robert H. Saunders—St. Lawrence River	7 9	1958) 1959)	940,000†
Nuclear Power Demonstration—near Des Joachims GS	$\frac{1}{2}$	1961	20,000†
Lakeview—near Toronto		1961—1962	600,000
NORTHERN ONTARIO PROPERTIES			
NORTHEASTERN DIVISION			
George W. Rayner—Mississagi River.	2	1950	47,000
Abitibi Canyon (extension)—Abitibi River.	1	1959	45,000
Red Rock Falls—Mississagi River.	2	1960—1961	38,000
Otter Rapids—Abitibi River.	3	1961—1962	131,000
Northwestern Division			
Ear Falls (extension)—English River Aguasabon—Aguasabon River Pine Portage—Nipigon River Manitou Falls—English River Caribou Falls—English River Whitedog Falls—Winnipeg River Cameron Falls (extension) Nipigon River—	1	1948	6.000
	2	1948	44,000
	4	1950—1954	119,200
	5	1956—1958	65,700
	3	1958	67,500
	3	1958	53,700
	1	1958	19,100
Alexander (extension)—Nipigon River	1 1 1	1958	11,300
Silver Falls—Kaministikwia River		1959	45,500
Thunder Bay—Fort William		1961	100,000†

^{*}Capacities quoted are dependable at time of system peak except those marked †, which are installed capacities.

Southern Ontario System the output of these sites could be used to meet loads in either or both operating systems. The actual capacity that can be derived from many of these potential sites will be established only upon completion of detailed field work and analysis of the economics involved. Present information indicates that a total capacity of approximately 1.2 million kilowatts may be obtained from sites on the Abitibi, Mattagami, Missinaibi, Mississagi, Montreal, and French Rivers. Investigation of these resources is continuing in 1959. Most of the power potential is concentrated in the area north and west of Abitibi Canyon Generating Station, and transmission of the power from these sites to load centres is expected to require a voltage greater than the present maximum of 230 kilovolts in use in Ontario. Extra-high voltages in the range of 345 to 460 kv are being studied. Information on technical investigations into these extra-high voltages is given on page 98.

In 1958 the Commission decided to proceed immediately with two of these Northeastern Division sites, Otter Rapids on the Abitibi River and

	Genera- tion	Transfor- mation	Trans- mission	Rural	Other	Total
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
1946	6,160	4.184	3,980	4.942	320	19,586
1947	20,725	9,587	7,892	6,672	961	45,837
1948	48,122	12,839	14,369	13,514	1,833	90,677
1949	79,472	19,172	22,061	23,827	5,584	150,116
*1950	86,637	28,025	30,346	19,521	6,951	171,480
1951	94,267	25,143	17,886	22,725	4,597	164,618
1952	96,682	22,954	15,628	23,033	4,534	162,831
1953	117,311	21,711	15,444	24,402	4,767	183,635
1954	76,649	15,360	16,091	20,133	4,585	132,818
1955	68,483	12,624	10,823	18,961	3,681	114,572
1956	128,245	13,454	11,424	17,244	2,626	173,003
1957	151,738	17,302	19,295	17,347	3,010	208,692
1958	126,204	20,688	20,806	19,556	3,402	190,656
Total 1946-58	1,100,695	223,053	206,045	231,877	46,851	1,808,521

^{*14-}month fiscal period

Red Rock Falls on the Mississagi River. Initially power from Otter Rapids will be incorporated into the 115-kv system at Abitibi Canyon Generating Station. Subsequently this power will be incorporated into the extra-high voltage transmission system, which will probably be associated with the development of additional facilities in the area.

The eight generating station projects where construction is going on at present are Robert H. Saunders Generating Station on the St. Lawrence River, Silver Falls Generating Station on the Kaministikwia River, Otter Rapids and Abitibi Canyon Generating Stations on the Abitibi River, Red Rock Falls Generating Station on the Mississagi River, and three thermal-electric stations—Richard L. Hearn and Lakeview Generating Stations in the Toronto area and Thunder Bay Generating Station at Fort William. Brief progress reports for all but the first of these developments are included in this section of the Report. More comprehensive descriptions are given for Robert H. Saunders-St. Lawrence, Whitedog Falls, and Caribou Falls Generating Stations, all of which were initially placed in service during 1958.

Survey Work

In connection with these potential sites and other survey work, approximately 1,250 line miles of aerial photographic survey were completed on scales varying from 400 to 2,000 feet to the inch. In field operations, extensive use was made of mosaics which in total represented some 9,000 square miles of photographed territory.

An experimental survey for a 35-mile stretch of proposed 115-kv transmission line from Maynard Falls on the English River to Hawk Lake

Total Mileage of Transmission Lines and Circuits

	Line re	oute or re miles	Circuit miles		
Voltage and Structure	At Dec. 31, 1957	At Dec. 31, 1958	At Dec. 31, 1957	At Dec. 31, 1958	
SOUTHERN ONTARIO SYSTEM 230,000-voltsteel tower 115,000-voltsteel tower 115,000-voltwood pole 115,000-voltunderground cable 60,000-voltsteel tower 60,000-voltwood pole 44,000-volt and less wood and steel Total Southern Ontario System	2,612.28 1,552.27 934.04 17.11 11.17 2.66 4,696.17	2,827.15 1,558.59 939.85 19.35 11.17 3.31 4,725.01	3,208.23 2,394.80 938.65 38.67 12.30 2.66 5,222.11 11,817.42	3,551.28 2,407.86 944.46 43.15 12.30 3.31 5,228.66	
Northern Ontario Properties 230,000-voltsteel tower 230,000-voltwood pole 115,000-voltsteel tower 115,000-voltwood pole 69,000-voltwood pole 44,000-volt and less wood and steel Total Northern Ontario Properties Total—All systems	55.28 144.75 865.64 1,301.65 203.72 1,603.51 4,174.55	55.28 251.80 885.50 1,460.19 203.72 1,748.32 4,604.81 14,689.24	55.28 144.75 1,519.08 1,301.65 203.72 1,674.98 4,899.46	55.28 251.80 1,522.78 1,460.19 203.72 1,814.16 5,307.93	

Junction was undertaken using a recently perfected optical distancemeasuring instrument known as a reduction tacheometer. Ground measurement with standard distance-measuring devices was not required, and use of the instrument gives promise of reducing man-hours on such a job by nearly 40 per cent. A new item of electronic equipment, the tellurometer, using a microwave system of distance measurement was used experimentally with satisfactory results on an investigation survey on the Mississagi River.

Regional Office and Service Buildings

A new East Central Region office building in Belleville was officially opened in May. Plans are now being developed for a new regional office building in the Toronto area. Construction of ten new area office buildings, nine new area service buildings, and one combined office and service building was completed during the year.

In anticipation of growing interest in electric heating the Commission will install it in two of the area buildings at present under construction with a view to obtaining accurate operating information. The performance of the heat-pump installation for heating and air-conditioning the Robert H. Saunders-St. Lawrence Generating Station has been good.

Hydraulic Models

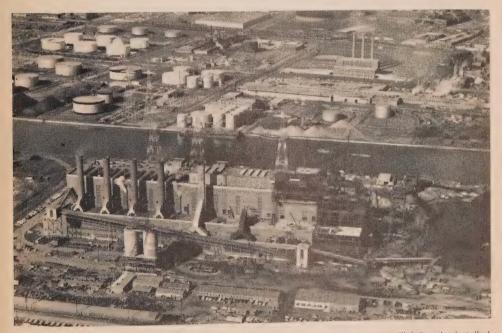
The Commission's Hydraulic Model Laboratory continues to be a centre of interest to visitors from all over the world. A coloured moving picture

of the type of work carried out there is being prepared for publication in 1959. During 1958, demonstrations were given of future navigating conditions at the approaches to the new Iroquois Lock for the benefit of ship owners and captains. Contractors bidding on the United States part of the tailrace improvement at the St. Lawrence Power Project were given, through the use of these models, some indication of the conditions they could expect to encounter. Studies are being continued in the program of work undertaken on behalf of the Power Authority of the State of New York with respect to the Lewiston Power Project.

SOUTHERN ONTARIO SYSTEM

Progress on Power Developments

The development of generating facilities in the Southern Ontario System involved four major projects—the completion of the redevelopment program on the Niagara River, continuing work on the St. Lawrence Power Project including the partial completion of Robert H. Saunders-St. Lawrence Generating Station where seven units were placed in service, a program for the extension of Richard L. Hearn Generating Station in Toronto by four additional units, and initial construction at Lakeview Generating Station just west of Toronto. The first was the subject of a special descriptive article in the 1957 Report in recognition of the initial operation of the pumping-generating station associated with Sir Adam Beck-Niagara



RICHARD L. HEARN GENERATING STATION — The addition of four turbo-generators will bring the installed capacity of the station to 1,200,000 kilowatts. During 1958, the installation of the first of these units neared completion. It will be placed in service early in 1959.

Rated Head

In Service



RICHARD L. HEARN GENERATING STATION — Work crews assemble the first of four 200,000-kilowatt steam turbo-generators to be installed at the station. The cross-compound turbines are arranged in a double line to obtain maximum efficiency.

Generating Station No. 2 and the dedication of the completed remedial works in the Niagara River. The Robert H. Saunders-St. Lawrence Generating Station is similarly treated in this year's Report. The growing importance of thermal-electric generation is indicated by the magnitude of the two projects at present being developed in the Toronto area where 1,400,000 kilowatts, or 32 per cent of the present system generating capacity, will be added during the period 1959 to 1962.

SIR ADAM BECK-NIAGARA GENERATING STATION No. 2 AND THE ASSOCIATED PUMPING-GENERATING STATION—NIAGARA RIVER.

Location —Near Queenston, 6 miles down stream from the cataract and adjacent to Sir Adam Beck-Niagara Generating Station No. 1.

Installed Capacity —1,370,000 kilowatts, 60 cycles (1,200,000 kilowatts in 16 units in the main generating station, and 170,000 kilowatts in the pumping-generating station).

—Main generating station—292 feet.
Pumping-generating station turbines—80 feet.

—Seven main generating units in 1954, five in 1955, two in 1957, and two in 1958. Three pumping-generating units in 1957 and three in 1958.

Cost at December 31, —\$312,200,000 including generation, step-up trans-1958, (16 units and formation, and high-voltage switching at the site. pumped storage) Following the completion of structural and electrical work, the last two of the sixteen units in the main powerhouse were placed in operation on June 26 and August 14. Units 4, 5, and 6 were placed in service at the pumping-generating station on March 3, April 14, and June 9.

RICHARD L. HEARN GENERATING STATION—TORONTO.

Location — Eastern area of the Toronto waterfront.

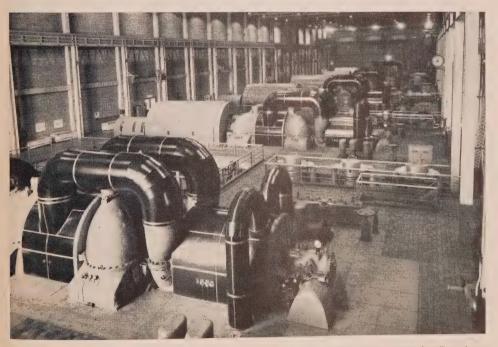
Installed Capacity —1,200,000 kilowatts, 60 cycles (400,000 kilowatts in 4 units, and 800,000 kilowatts in 4 units).

In Service — Unit No. 1, 1951; Units No. 2 and 3, 1952; Unit No. 4, 1953.

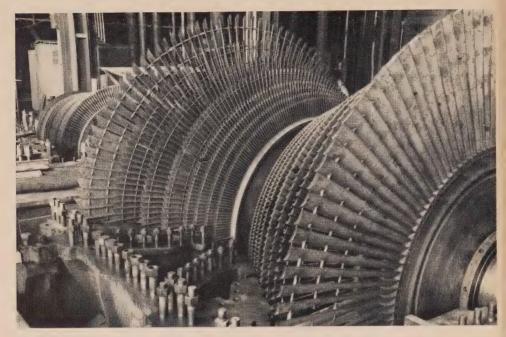
In-Service Schedule —Units No. 5 and 6 in 1959, and Units No. 7 and 8 in 1960.

Estimated Cost —\$107,640,000, including generation, step-up trans-(4 additional units formation, and high-voltage switching at the site. only)

Work is proceeding for the extension of Richard L. Hearn Generating Station by the installation of four 200,000-kilowatt turbo-generator sets, making eight units in all. Delay in equipment and materials deliveries required the postponement of the in-service date for the first of the new units from October 1958 to February 1959.



RICHARD L. HEARN GENERATING STATION — This view of the generator floor from the visitors' gallery shows four steam turbo-generators in service. In the background the installation of the first of four additional turbo-generators is in progress. A temporary end-wall closes off the station.



RICHARD L. HEARN GENERATING STATION — Reaction blades individually machined bristle from the duplex low-pressure cylinder of No. 5 unit.

Structural steel for the entire extension was almost complete and the walls and the roof were nearly finished as far as the Unit No. 7 stage. Work on the coal-handling system was well advanced.

For Unit No. 5 the turbine, generator, and boiler installation was approaching completion at the end of the year. Test pressure in the boiler had been raised to 3,300 psi for inspection. For Unit No. 6, deaerators, demineralizers, pulverizers, and pre-heaters were finished; the precipitators and the induced-draft fans and ducts were over 90 per cent complete. Work was progressing on Unit No. 7 on a schedule involving an in-service date of October 1960, and work was well begun for Unit No. 8.

LAKEVIEW GENERATING STATION—NEAR TORONTO

Location —On Lake Ontario just west of Toronto.

Installed Capacity —600,000 kilowatts in 2 units, 60 cycles.

In-Service Schedule — Unit No. 1 in 1961 and Unit No. 2 in 1962.

Estimated Cost —\$98,000,000, including generation, step-up transformation, and high-voltage switching at the site.

Negotiations for the purchase of land for the site are now complete and earth excavation for the powerhouse has begun. Work to provide services to the area was under way, including preparatory excavation work for the main service road. The initial shoreline protection work and cofferdam were built.

A number of major items of equipment have been purchased—turbine generators, steam generators, boiler feed pumps, steam surface condensers and auxiliaries, deaerators, high- and low-pressure feed heaters, dust collectors, the turbine-room cranes, and the main transformers.

Acquisition of the necessary transmission line rights of way was well advanced.

Potential Thermal-Electric Station Sites

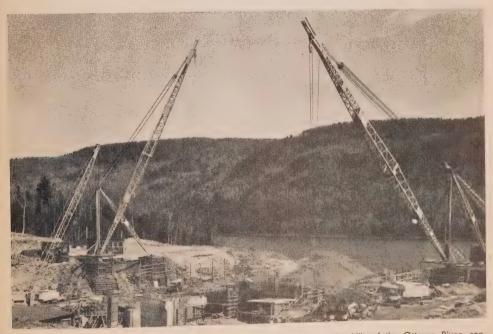
Geological investigations and ground and water surveys were carried out during the year in connection with two other sites for large thermal-electric installations.

Nuclear-Electric Resources

Construction of the 20,000-kilowatt Nuclear Power Demonstration Project was resumed in August after a lapse of 16 months, during which time the design of an improved reactor was incorporated in the plant specifications. Work is now proceeding simultaneously on the pump-house and the powerhouse.

Engineering work for the conventional part of the project was resumed in February 1958 and all major equipment for the station had been purchased by the end of the year.

The work for this project is being carried out in conjunction with Atomic Energy of Canada Limited and the Canadian General Electric Company Limited.



NUCLEAR POWER DEMONSTRATION — In a picturesque setting among the hills of the Ottawa River, construction is under way for the first nuclear power generating station in Canada. The 20,000-kw station is being built close to the Commission's Des Joachims Generating Station.

Early in 1958 a Nuclear Power Division of Atomic Energy of Canada Limited was established at the A. W. Manby Service Centre in Metropolitan Toronto and several of the Commission's engineers were assigned to work with the Division. They will participate, together with engineers from other interested agencies, in a program for the development of a design for a full-scale nuclear power station.

ROBERT H. SAUNDERS-ST. LAWRENCE GENERATING STATION

Location — The International Rapids Section of the St. Lawrence River about 2 miles west of Cornwall.

Installed Capacity —940,000 kilowatts in 16 units, 60 cycles (Ontario Hydro's share).

Rated Head —81 feet.

In Service —7 units in 1958 on July 5, July 8, July 12, August 22, September 12, October 8 and November 12.

In-Service Schedule —9 units in 1959.

Estimated Cost —\$300,000,000, including generation, step-up transformation, and associated high-voltage switching at St. Lawrence Transformer Station.

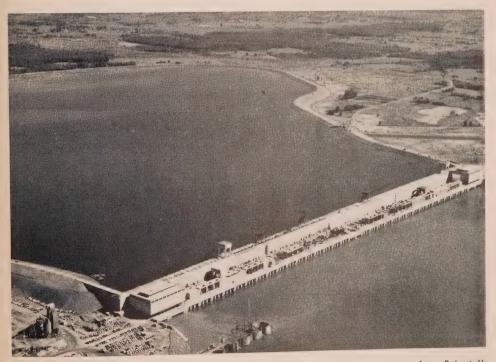
The Robert H. Saunders-St. Lawrence Generating Station is the Canadian half of the 3,300-foot powerhouse structure which is the central feature of the St. Lawrence Power Project. This structure, bisected by the International Boundary, spans the north channel of the St. Lawrence River between the eastern tip of Barnhart Island and the Canadian mainland. The area affected by the project as a whole lies along a 40-mile stretch of the river which there forms the international boundary between the Province of Ontario and the State of New York. This affected area extends southwest from Cornwall to a point about 5 miles up stream from Cardinal. The normal engineering difficulties attending construction of a project of this magnitude were only a phase of a complex involving problems in jurisdiction. administration, and public relations. Certain problems were typical of those associated with projects to raise levels of international waters; others resulted from the necessity to co-ordinate the power development with the St. Lawrence Seaway Development; still others involved the relocation of established communities and facilities in order to provide for the area of the headpond.

History

The Commission's interest in developing power from the St. Lawrence River dates back to 1913 when special investigations were first undertaken. Field surveys and studies extending over several years prepared the way for a formal submission with respect to the power possibilities of the International Rapids Section. This was made in 1921 to the International Joint Commission, which had been established under the Boundary Waters Treaty of 1909 to deal with problems related to the use of international

waters. This first formal statement was favourably received by the International Commission and a Joint Board of Engineers was named to study how the power could best be developed. Following upon a report by the Joint Board, representatives of Canada and the United States, in 1932, signed the St. Lawrence Deep Waterway Treaty which called for the construction, as an international undertaking, of a combined seaway and power project in the International Rapids Section of the river. The treaty was, however, not ratified by the United States. The linking of the power and navigation aspects of the scheme, though economically and physically appropriate and practicable, proved to be only the beginning of a series of discussions, proposals, and counter proposals over a period of more than twenty years. Renewed negotiations brought about the Great Lakes-St. Lawrence Basin Agreement of 1941, which was neither approved nor rejected by the United States Congress. After more than 11 years of uncertainty, Canada, having advanced an alternative plan for development, finally ended the agreement on November 4, 1952. Opponents of the Seaway in their determination to block the one development, had effectively forestalled the other, since the two were inextricably bound together in both the 1932 treaty and the 1941 agreement.

In 1951 Canada proposed that separate agencies be authorized to construct the power works on the understanding that Canada would



ST. LAWRENCE POWER PROJECT—On July 1, 1958 the 600-foot cofferdam up stream from Robert H. Saunders-St. Lawrence Generating Station was breached. Water flowed in to form the 100-square-mile lake St. Lawrence. In this aerial view the broad sweep of the new lake is defined by the dike on the Canadian shore.

complete the 27-foot navigation scheme from Montreal to Lake Ontario as a Canadian venture. In December 1951 the Government of Canada concluded an agreement with the Province of Ontario, subsequently approved by an enactment of the Provincial Legislature on April 10, 1952, delegating the power aspects of the operation to the Province, which in turn delegated its responsibilities to The Hydro-Electric Power Commission of Ontario. The Governments of Canada and the United States, on June 30, 1952 on the basis of an exchange of notes at that date, each made a submission to the International Joint Commission which issued an Order of Approval for the power project on October 29, 1952.

On July 15, 1953 the United States Federal Power Commission issued a licence to the Power Authority of the State of New York to develop the United States share of the power. The granting of this licence, already opposed on earlier occasions, was challenged in the United States courts. The Authority was thus not free to proceed until June 7, 1954 when the United States Supreme Court announced that it would not entertain a final appeal against earlier judgments in the Authority's favour. The same Supreme Court decision opened the way for construction of the navigation works. A United States proposal, based on legislation passed in May 1954 involving the creation of a St. Lawrence Seaway Development Corporation, was discussed at meetings in Ottawa during July and August.



ST. LAWRENCE POWER PROJECT — This view looking down stream shows Barnhart Island prior to the commencement of construction in the area. The waters of the St. Lawrence River, divided at this point by Barnhart Island, rushed turbulently into the south channel at the right, over the Long Sault rapids. Now, with a dam spanning the south channel at the western end of the island and the powerhouse spanning the north channel at the eastern end, the rapids have disappeared and an 81-foot head has been created for the generation of electric power.

See the corresponding picture, after construction, on page 71.

On August 10, 1954 a ceremony for the turning of the first sod was held at the powerhouse site and first tenders for work on the power project were called later in the year. The first tenders for the navigation works were called for in September and work was begun before the close of the 1954 construction season. The two aspects are entirely separate undertakings, based on separate authorizations, built by different construction agencies, and separately financed. Joint use of the river, however, has involved the most complete co-ordination and co-operation in the planning and construction stages and will continue to demand the same in the operation of the completed developments.

Drainage Area

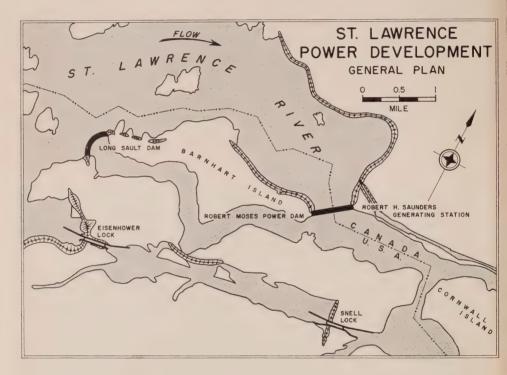
The Great Lakes-St. Lawrence Basin westward from Cornwall covers an area of more than 300,000 square miles, of which almost a third is water. Its northern and western limits on the Canadian side are formed by the rocky Laurentian Shield. The United States shore is generally a terrain of low altitude comprising rolling hills chiefly of glacial origin. The chain of lakes extending westward half-way across the continent constitutes the largest body of fresh water in the world. The St. Lawrence River, which for the first 60 miles from its origin at the eastern tip of Lake Ontario is virtually an arm of the lake, carries the outflow of this vast hinterland northeastward to the sea. Tributary flow to the river between Lake



ST. LAWRENCE POWER PROJECT—In this general view of the project, looking down stream, the Long Sault dam curves gracefully from the western end of Barnhart Island to the United States mainland. At the middle right is the bridge that provides access to the island from the south shore. In the background the adjoining powerhouses of Ontario Hydro and the Power Authority of the State of New York can be seen spanning the north channel.

Ontario and Cornwall is negligible in comparison with the mean annual discharge from Lake Ontario of 245,800 cfs, and the latter amount is therefore assumed as the flow available for power.

The present proposal is that eventually river-flow be controlled in accordance with a plan of regulation prepared by the International St. Lawrence River Board of Control and approved by The International Joint Commission. This would provide for a range in water-levels in Lake Ontario from elevation 244 to 248 during the navigation season and for a regulated outflow from the lake ranging from a maximum of 310,000 cfs to a minimum varying from 190,000 cfs in the spring and fall to 212,000 cfs in the winter. The plan is designed to control levels in Lake Ontario



and at the same time to protect navigation and other interests down stream. Until the full implementation of the proposal, lake-levels and outflows from Lake Ontario are being maintained as they were prior to construction.

Main Features

The main structure incorporating the two powerhouses extends 3,300 feet across the north channel of the river from the eastern tip of Barnhart Island to the Canadian shore. It is bisected by the International Boundary. The Canadian half comprises the 16-unit Robert H. Saunders-St. Lawrence Generating Station with integral headworks, one ice sluice adjacent to the United States half, and two ice sluices at the Canadian shore. Dikes to contain the headpond on the Canadian side and improvements in river channels to meet navigation and power requirements were also included as part of the construction project. Up stream at the western extremity of the island



ST. LAWRENCE POWER PROJECT — Early in April water was admitted into the tailrace area of Robert H.

Saunders-St. Lawrence Generating Station. This was accomplished by removing fill from the middle cell of
the cofferdam and cutting holes in its side.

the 2,960-foot Long Sault dam spans the south channel of the river, and about 25 miles farther up stream the Iroquois control dam spans the river between Iroquois Point on the Canadian side and Point Rockway on the United States side.

The cost of all work, exclusive of machinery and equipment in the powerhouses, will be shared equally by the Commission and The Power Authority of the State of New York.

Construction

The flow of water into the powerhouse site was stopped by two cofferdams, one an earth and rockfill structure in a narrows about $2\frac{1}{2}$ miles up stream, and a much more substantial structure 4,300 feet long and closing the north channel some 500 feet down stream from the site. The latter consisted of sixty circular cells of sheet piling filled with gravel and earth. The area between the dams was then pumped dry, and excavation for the powerhouse began. Ships continued to use the Cornwall navigation canal which paralleled this area to the north. Access to the construction area was provided by two tunnels under the navigation canal and a retractable Bailey bridge at Lock 19 about three-quarters of a mile down stream from the powerhouse site.



ST. LAWRENCE POWER PROJECT — During construction of the powerhouse, ships passed up and down the river through a 50-foot opening in this concrete structure. Built into the dike on the Canadian shore, the structure was closed on July 1 to seal the headpond area.

Subsequently as the dikes extending north and west from the power-house were built up, this channel had to be closed. A temporary diversion canal was established to the north, and passage for shipping through the dike was provided at a concrete structure which was eventually to be the point of closure for the dike. Closure was made on June 30, 1958 by placing steel stoplogs in this structure. As a safety measure a reinforced-concrete wall 7 feet thick was built on the downstream side at the point of closure and keyed into the previous concrete structure. Removal of the downstream cofferdams had already begun on March 30. On July 1, well under four years after the commencement of construction, the upstream cofferdam was removed and filling of the headpond area began. The first unit was placed in service on July 5 and by the end of the year seven units were in service.

Superstructures were erected for those parts of the powerhouse which will house the erection bay, the control room, and the administration offices. Gates were installed in all three ice sluices in readiness for winter operation. Excavation and dredging to the required depth and width were completed in the 27-foot navigation channel up stream from the powerhouse, but excavation in areas beyond the navigation channel will continue for some time.

Long Sault Dam

The Long Sault dam was designed and built by the Power Authority of the State of New York. The Commission took the major part in planning and carrying out a scheme for diverting the river to facilitate construction.



ST. LAWRENCE POWER PROJECT — Earth and debris roar skywards in the early morning of July 1 as 30 tons of explosive demolish the 600-foot cofferdam located $2\frac{1}{2}$ miles up stream from the Robert H. Saunders-St. Lawrence Generating Station.



ST. LAWRENCE POWER PROJECT — Water rushed through two 100-foot gaps torn in the upstream cofferdam by the explosive charges, and the flooding of the headpond began. Three days later the powerhouse forebay was flooded to a depth of 90 feet.

Model tests on which the scheme was based were carried out at the A. W. Manby Service Centre.

The 2,960-foot curved-axis concrete structure comprises thirty 50-foot sluiceways formed by 10-foot piers. It terminates at each end in a bulkhead with wing walls. Eighteen sluicegates are equipped with fixed electric hoists, the remaining twelve are handled by cranes on the service deck. They will discharge flows in excess of plant requirements and effect major control of headpond levels within specified ranges. The maximum height of the dam from foundation to deck is 145 feet. Construction required the excavation of over six million cubic yards of earth and rock and the placing of some 650,000 cubic yards of concrete.

Iroquois Dam

The studies which established the most appropriate location and the general construction of this dam, and in addition some preliminary design for the structure, were carried out by the Commission. The Power Authority completed the design and carried out construction.

The dam, with a concrete section of 1,980 feet exclusive of wing walls, controls outflow from Lake Ontario, Its thirty-two 50-foot sluices are designed to carry a maximum flow well in excess of the greatest recorded on the river. Two 350-ton travelling gantry-cranes operate the steel roller-type sluicegates. The gates can be dogged in open position.



ST. LAWRENCE POWER PROJECT — Flow from Lake Ontario is regulated by a control dam at Iroquois about 35 miles up stream from Robert H. Saunders-St. Lawrence Generating Station. The 2,250-ft. dam is by-passed by a canal and lock system.

Channel Enlargement

The combined seaway and power development required that in the International Rapids Section of the river provision be made for a channel conforming with specifications for 27-foot navigation. Further adjustments were required in the river, first to reduce water velocities in order to facilitate the formation of an ice cover when required, and second to reduce losses at points of restriction in the river so as to provide the maximum head at the powerhouse.

The Commission at its Hydraulic Model Laboratory prepared the designs for all channel improvements in conformity with the terms of the International Joint Commission's Order of Approval. Channel enlargement was carried out in six separate areas by contractors engaged by the Commission, at Chimney and Galop Islands, at Iroquois Point and Point Three Points, and in the vicinity of Cardinal and Morrisburg. When this work is finished in 1960, dredging of the tailrace channel will begin.

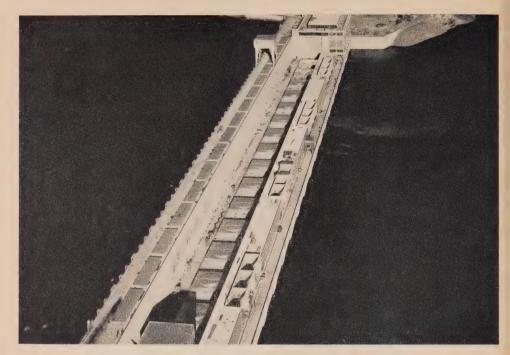
Rehabilitation Work

The inconvenience attending the evacuation of some 6,500 persons from the headpond area on the Canadian side of the river was reduced to a minimum by detailed planning and the continuous consideration given the residents of the area affected. In all, 525 homes were moved to alternative



ST. LAWRENCE POWER PROJECT — Floe ice in the headpond of Robert H. Saunders-St. Lawrence Generating Station will be discharged with a minimum loss of water through three ice sluices equipped with drum gates.

Two of the sluices, each with 75-foot-wide gates, are visible in this view of the headworks.



ST. LAWRENCE POWER PROJECT — Sixteen centre-parting roll-back hatch covers mark the location of the generating units at Robert H. Saunders-St. Lawrence Generating Station. Transformer pockets, each housing a bank of 3 single-phase 86,000-kva transformers, extend along the downstream side. On the upstream side the headworks gantry crane stands astride the headgate hoist covers near the administration building.

sites, and 96 multiple-dwelling units were constructed. Entirely new settlements were built at Iroquois, Long Sault, and Ingleside; one-third of residential Morrisburg was relocated and the entire business section of the town was re-established to the north in a new shopping centre. The associated new facilities have included fourteen churches, nine schools, five railway stations, and four shopping centres. A 35-mile section of Highway No. 2 and 40 miles of the Canadian National Railways double-track main line were also relocated. By the end of 1958 all work was complete except for a lodge hall and one church, which are still under construction, and certain miscellaneous items of landscaping.

Headworks

The headworks and the powerhouse are an integral part of the structure closing the north channel. Each of the sixteen intake passages is divided by intermediate piers into three bays. Initial control of flow to the turbines is effected by headgates located in these bays, each gate being separately operated by a fixed electric hoist. Service for the headworks is provided by a 90-ton gantry-type electrically operated crane moving on tracks extending the length of the dam.

Ice Sluices

Floe ice can be discharged past the powerhouse through the three ice sluices. Two passing through the concrete substructure of the erection

bay adjoining the shore are 75 feet wide and the third, which is adjacent to the Power Authority's generating station, is 50 feet wide. Each sluice will be equipped with a drum gate, sectoral in cross-section and hinged at the centre of radius of the sector near the upstream entrance to the sluice. Each gate will swing downwards into a floatation chamber in the concrete substructure so that, in the open position, the upper exposed side of the gate will become the crest of the spillway. When the chamber is completely flooded the gate will float into an upright position and be fully closed. A 30-inch inlet conveys water from the forebay into each floatation chamber; drains equipped with butterfly valves are capable of discharging a chamber in 60 seconds.

Powerhouse and Adjoining Structures

There is no conventional superstructure above the generating units, which are protected by sliding covers. Hoisting service for the units is provided by 300-ton gantry-type electric cranes, one for each of the power-houses. Both cranes are fully enclosed and move on tracks running the full length of the powerhouse structure so that they become, in effect, movable superstructures available for service wherever they may be required on either of the powerhouses.

The superstructure housing the erection bay, the machine shop, administration offices, and other facilities rises 76 feet above the powerhouse deck

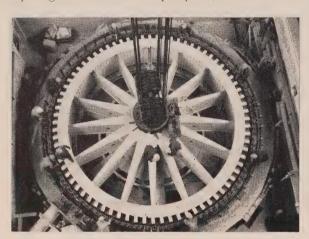


ST. LAWRENCE POWER PROJECT — An electrically operated travelling gantry-crane capable of lifting 300 tons stands astride the hatch covers which, in the absence of the conventional superstructure, protect the generating units at Robert H. Saunders-St. Lawrence Generating Station. By means of the crane, units can be removed to the erection bay visible in the background. Net weight of the crane is approximately 625 tons.

level and is located above the two ice sluice openings near the Canadian shore. In this area, hoisting service is provided by two 80-ton, electric, overhead, travelling cranes, but a rising door will permit the 300-ton gantry-crane to enter the area, thus facilitating the transfer of loads from one crane to the other.

Generating Station Equipment

The sixteen fixed-blade propeller-type hydraulic turbines were supplied by English Electric Company of Canada Limited. They have rated capacities



ROBERT H. SAUNDERS-ST. LAWRENCE GENERATING STATION —
The 250-ton rotor for one of the 16 generating units is lowered carefully into position within its stator.

of 75,000 brake horsepower operating at 94.7 rpm under a head of 81 feet. Each is directly connected to a 60-cycle, totally enclosed, water-cooled, electric generator rated at 60,000 kva at .095 power factor. Eight of the generators were manufactured by Canadian General Electric Company Limited and eight by Canadian Westinghouse Company Limited, Governing equipment for the turbines includes a twin-unit actuator and pressure tank for each

pair of units. The generating units, arranged in groups of four, as well as the auxiliary equipment, can be controlled either from the operating floor or from the control room in the administration building.

Power into the System

Each group of four generators is connected through metal-clad switch-gear to a bank of three single-phase power transformers rated at 86,000 kva which step up the voltage from 13.8 to 230 kilovolts. Each breaker has an interrupting capacity of 2,000,000 kva. Four 230-kv underground cable circuits, the first of this voltage installed under ground by the Commission, carry the current to a line terminal structure about 500 feet from the powerhouse. Four 230-kv transmission lines connect the terminal structure with the St. Lawrence Transformer Station located about 2.5 miles from the powerhouse.

Transformer Stations

Gross expenditures on transformation in the Southern Ontario System during the year amounted to \$15.6 million, about 11 per cent of the total spent in 1958 on capital construction. The extensive program of work provided for increases in capacity at 14 major transformer stations and the construction of 5 new stations. The greatest activity was centred in eastern Ontario and in the areas of Metropolitan Toronto and Hamilton. In the

southwestern section of the Province, increased load demands, chiefly from large industrial power users, required the development of plans to expand transformation facilities there in the near future.

Stations in the Western, West Central and Niagara Regions

In anticipation of heavy demands for power by industrial users and municipalities in the Western Region, preliminary work was begun for the expansion of transformation facilities by the addition of 66,666 kva at London-Nelson Transformer Station and of 100,000 kva at London-Highbury Transformer Station. For the Sarnia area, work was begun on the design of Lambton Transformer Station with a capacity of 430,000 kva. Two transformers were added at Sarnia Transformer Station during the year to increase its capacity to 174,500 kva. A fourth 115,000-kva autotransformer was installed at E. V. Buchanan Transformer Station.

Five of the main transformer stations supplying power to the city of Hamilton were modified and expanded during 1958. As part of the work to complete the frequency standardization of Burlington Transformer Station and to provide additional transformation facilities there, a 25cycle synchronous condenser was being rebuilt to a capacity of 48,000 kva at 60 cycles and all of the 230-kva oil circuit-breakers were being replaced by air-blast circuit-breakers, each with a rupturing capacity of 20 million kva. One of three 75,000-kva, 25-cycle transformer banks at the station was removed in the fall as part of the plan to replace the three banks by a 215,000-kva, 60-cycle autotransformer next year. This transformer together with two 215,000-kva autotransformers previously installed will provide capacity sufficient to meet loads in the Hamilton area until 1965. The capacities of Hamilton-Newton and Hamilton-Gage Transformer Stations were increased during the year, and at Hamilton-Stirton Transformer Station six single-phase transformers were rebuilt to bring the total station capacity to 135,000 kva.

Increases in transformation facilities in the Niagara Region during 1958 included the installation of a new 33,333-kva transformer at Niagara-Murray Transformer Station, replacing a 25,000-kva transformer previously in use there. Engineering and design were in progress also for a new 33,333-kva station which will be built on a site immediately north of Niagara Falls. When completed, this station will provide for increased loads and for additional service security to the municipal electrical utility. Construction is expected to begin early next year.

Stations in the Toronto Area

The standardization and expansion of 230-kv transformation facilities at Leaside Transformer Station and A. W. Manby Transformer Station in Metropolitan Toronto reached the final stages by the end of 1958. At Leaside Transformer Station the greater part of the 25-cycle facilities had been removed and a third 215,000-kva autotransformer had been installed to bring the total capacity of 60-cycle, 230—115-kv transformation there to 645,000

kva. At A. W. Manby Transformer Station a 75,000-kva, 25-cycle transformer bank was replaced by a 215,000-kva, 60-cycle autotransformer. One of the five 115,000-kva, 60-cycle autotransformers was replaced also by a 215,000-kva autotransformer early in January. Next year the four remaining 115,000-kva autotransformers will be replaced by two 215,000-kva units. Supervisory control equipment was also installed there during 1958 for the remote control of John and Esplanade Transformer Stations. In northwest Metropolitan Toronto the construction of a building to house a system control centre at Richview Transformer Station was completed and the transfer of controls to the new centre was begun.

The establishment of Cherrywood Switching Station as the main switching point for all 230-kv transmission lines carrying power from eastern resources is expected to be completed next year. By the end of 1958 fourteen 230-kv, 60-cycle, air-blast circuit-breakers had been installed as part of the terminal facilities for these circuits.

Transformation facilities at a number of 115-kv stations in the Toronto area were expanded during the year. A new transformer station under construction at Teraulay and Bay Streets in downtown Toronto will have an ultimate capacity of 160,000 kva. It will be supplied by two 115-kv underground cable circuits.

Stations in the East Central and Eastern Regions

The placing in service of the Robert H. Saunders-St. Lawrence Generating Station required extensive transformation facilities in the eastern section of the Province. At the end of 1958 considerable progress had been



ST. LAWRENCE POWER PROJECT—In this well-lighted control room at St. Lawrence Transformer Station the operators have before them instruments which permit continuous supervision of the operating equipment.

made in the establishment of St. Lawrence Transformer Station Seven 230-ky and three 115-ky air-blast circuit-breakers had been installed as part of the equipment required to incorporate the additional output. Three of the seven 230-kv circuit-breakers were placed in service in July when the first two circuits from the Robert H. Saunders-St. Lawrence Generating Station were energized. A fourth was installed in October to terminate the second 230-kv line from St. Lawrence Transformer Station to Richview Transformer Station. A voltage regulating transformer and two additional 230-ky circuit-breakers were placed in service in December as part of the facilities interconnecting the Southern Ontario System with the system of the Power Authority of the State of New York. During the same month the seventh 230-ky circuit-breaker was installed to terminate the third circuit from the Robert H. Saunders-St. Lawrence Generating Station. It was placed in service in January 1959 when the ninth generating unit at the power station came on the line. Three 115-kv air-blast circuitbreakers were placed in service in November. St. Lawrence Transformer Station will be completely established early in 1959 when the thirteenth and fourteenth circuit-breakers are installed.

In addition to the work carried on at St. Lawrence Transformer Station, the Commission has expanded transformation facilities generally throughout eastern Ontario. In 1958 a new switching station was under construction at Hinchinbrooke, about 25 miles north of Kingston. When completed, this station will provide switching for 230-kv circuits carrying



EAST CENTRAL REGIONAL OFFICE — A handsome new building provides 40,000 square feet of floor space for regional offices at Belleville.

power westward to heavily industrialized areas. About 16 miles immediately to the south of Hinchinbrooke Switching Station a 230,000-kva transformer station known as Cataraqui Transformer Station is being built to supply power to the Kingston-Belleville area. Preparatory work was also under way at the site of Hawthorne Transformer Station near Ottawa. Initially this station will provide switching for circuits to St. Lawrence Transformer Station, Cherrywood Switching Station near Toronto, Beauharnois Generating Station in the Province of Quebec, and Chats Falls Generating Station on the upper Ottawa River. At the new Woodroffe Transformer Station in the western section of Ottawa, the first of two 33,333-kva transformers was placed in service in November. Construction of an 83,000-kva transformer station at Minden Switching Station was completed during the summer months. Transformer stations of 83,000-kva capacity were also under construction at Port Hope and Morrisburg to improve voltage levels and service security.

Transmission Lines

The incorporation of power available from eastern resources required an extensive 230-kv transmission line network and associated switching facilities. During 1958 Commission forces built new lines, standardized 25-cycle lines, and installed equipment to provide five 230-kv circuits between eastern power resources and Cherrywood Switching Station. By the end of the year power from the Robert H. Saunders-St. Lawrence Generating Station was supplied over three of the four 230-kv single-circuit lines to St. Lawrence Transformer Station. From this point 230-kv lines were extended westward 102 miles to Hinchinbrooke Switching Station and northward 47 miles to Ottawa-Hawthorne Transformer Station now under construction. From Hinchinbrooke lines were built westward 90 miles to Ross L. Dobbin Transformer Station and southward 16 miles to the site of Cataragui Transformer Station. Early in the fall a new line to Richview Transformer Station was established from the east through Hinchinbrooke and Bannockburn. The conductor strung on the new sections of this line arrangement was the first of its type installed by the Commission. Both the conductor and the associated double-circuit steel towers, which were designed to Commission specifications, permit a substantial decrease in weight of steel. The standardization of all the 230-kv, 25-cycle lines east of Metropolitan Toronto was completed toward the end of the year when changes to circuitbreakers and relaying facilities were carried out. By that time all generating units at Chats Falls Generating Station and those of the Commission's Quebec suppliers, with one exception, were supplying power at 60 cycles either as a result of frequency standardization or through the operation of frequency-changing equipment.

Although the main area of 230-kv transmission line development was in the east, a number of important extensions and rearrangements were

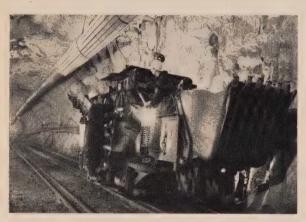
carried out in the central and western areas of the Province. A second 230-kv circuit was strung from Cherrywood Switching Station to Leaside Junction. Two of the three transmission tie-lines with the Niagara Mohawk Power Corporation in the Niagara area were relocated in order to facilitate construction of the Lewiston power development by the Power Authority of the State of New York. In the west, about half the section of 230-ky line which will provide a second circuit from Charing Cross Junction to J. Clark Keith Generating Station in Windsor had been strung by the end of the year. From the Junction to E. V. Buchanan Transformer Station a section of line previously operated at 115 kv was reinsulated for use at 230 kv. Together these two sections form a new 230-kv line to the Windsor area which will improve operating conditions and provide for future load growth. Engineering was completed for the construction of a new 230-ky, double-circuit, steel-tower line, 63 miles in length, from E. V. Buchanan Transformer Station to Lambton Transformer Station, to be built near Sarnia next year. Plans also call for the construction of a 65-mile, 230-kv, double-circuit, steel-tower line to link E. V. Buchanan Transformer Station to Neale Junction south of Hamilton in order to supply power to the Western Region with greater security. Surveys of the route were completed in 1958.

In Toronto the Commission continued the development of its 115-kv underground network. In addition to the installation of four 115-kv underground cable circuits between Riverside Junction and Toronto-Strachan Transformer Station, a number of new circuits were installed during 1958. Two 115-kv, three-phase, underground cable circuits, each 5,200 feet in length, were installed between Richard L. Hearn Generating Station and Mill Street Junction. The new circuits will be required to incorporate into the system the output of the fifth steam turbine-generator at Richard L. Hearn Generating Station. Two cable circuits were similarly installed between Toronto-Esplanade Transformer Station and Queen's Quay Junction, a distance of some 6,600 feet. This represents the first stage of the installation of two 115-kv underground cable circuits, each with a capacity of 160,000 kva, to link Richard L. Hearn Generating Station with Toronto-Strachan Transformer Station. Work was also well advanced on the installation of two 115-kv underground cable circuits from Queen's Quay Junction to supply Toronto-Teraulay Transformer Station, now under construction. The underground cable between Toronto-Gerrard Transformer Station and Bloor Street Junction was replaced by a lowpressure, oil-filled cable circuit. The cable was installed in a pipe filled with oil maintained at a small positive pressure above atmospheric pressure. A number of changes to 115-kv overhead lines in the Toronto area were carried out also to accommodate frequency standardization and as part of the over-all expansion of transmission facilities.

NORTHERN ONTARIO PROPERTIES

Progress on Power Developments

During 1958, nine hydro-electric generating station projects were under construction in the Northern Ontario Properties. Whitedog Falls Generating Station on the Winnipeg River and Caribou Falls on the English River,



SILVER FALLS GENERATING STATION — A mucking machine in the hydraulic tunnel is greased before being moved to the tunnel face. Operated by compressed air, it speeds the removal of loose rock.

both of which were completed and placed in service in 1958, are discussed in special descriptive articles at the end of this section of the Report. Work also progressed satisfactorily on the one-unit station at Silver Falls on the Kaministikwia River. One-unit extensions were completed and placed in service at each of three other stations in the Northwestern Region -Manitou Falls Generating Station on the English River and Cameron Falls and Alexander Generating

Stations on the Nipigon River. The three other projects are in the Northeastern Division—Red Rock Falls Generating Station on the Mississagi River, Otter Rapids Generating Station on the Abitibi River, and Abitibi Canyon Generating Station, also on the Abitibi River, where an additional 60-cycle unit is being installed.

A tenth project under construction was Thunder Bay Generating Station at Fort William, the Commission's third major thermal-electric generating station.

SILVER FALLS GENERATING STATION—KAMINISTIKWIA RIVER

Location —30 miles northwest of Fort William.

Dependable Peak —45,500 kilowatts in one unit, 60 cycles.

Capacity

Rated Head —330 feet.

In-Service Schedule —September 1959.

Estimated Cost —\$16,500,000, including generation, step-up transformation, and high-voltage switching at the site.

Driving of the 10,400-foot hydraulic tunnel was completed and the invert was lined with concrete. Pouring of the arch was begun. The concrete intake structure was built and service gates were installed.

Excavation of the powerhouse foundation was finished and about 30 per cent of the powerhouse structure was concreted.

OTTER RAPIDS GENERATING STATION—ABITIBI RIVER

Location —60 miles northeast of Kapuskasing and 23 miles down stream from Abitibi Canyon Generating Station.

Dependable Peak —131,000 kilowatts in three units, 60 cycles.

Capacity

Rated Head —107 feet.

In-Service Schedule — Two units in 1961 and one unit in 1962.

Estimated Cost —\$38,400,000, including generation, step-up transformation, and high-voltage switching at the site.

Two series of rapids, known as the upper and lower Otter rapids, occur on the 2-mile stretch of the Abitibi River which is sometimes referred to as Otter Canyon. The construction of the generating station at the downstream end of the lower rapids will permit good use to be made of the high canyon walls. A head of 107 feet will be possible with a headpond area that will require the clearing of less than 200 acres.

Preliminary design for the station was almost complete by the end of the year and plans have been drawn for the basic requirements of the construction work and for the disposition of the buildings involved.

The main dam will span the river at the downstream end of an island which divides the river for some 1,500 feet. Construction of the power-house and headworks will proceed in the dry, and will be unaffected by water diversion activity. In the beginning the west channel of the river will be closed by cofferdams, and a bulkhead structure incorporating diversion sluices will be built. Upon completion of this part of the main dam, the river will be diverted through the newly constructed sluices when cofferdams are constructed in the east channel to permit construction of the rest of the main dam, including the control sluices.

The project is served by the Ontario Northland Railway line between Cochrane and Moosonee. During 1958 a road was built from the railway to the generating station site and a camp was established for the construction staff

RED ROCK FALLS GENERATING STATION—MISSISSAGI RIVER

Location —Northeast of Thessalon and 15 miles down stream from George W. Rayner Generating Station.

Dependable Peak —38,000 kilowatts in 2 units, 60 cycles.

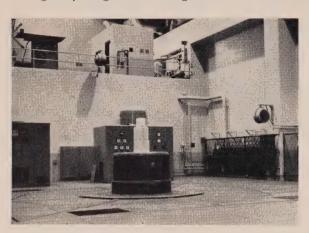
Capacity

Rated Head —93 feet.

In-Service Schedule —1960-1961.

Estimated Cost —\$19,100,000, including generation, step-up transformation, and high-voltage switching at the site.

The site of Red Rock Falls Generating Station is about 12 miles in a northeasterly direction from Thessalon. Materials and equipment are brought by freight to a siding 2 miles west of Blind River, from where they are



CAMERON FALLS GENERATING STATION — An interior view of the generating station shows the seventh unit, which was added to the station in 1958.

transported by truck over $16\frac{1}{2}$ miles of Provincial Highway and 3 miles of Commission-built access road. This access road was opened to traffic in August 1958.

The powerhouse will form one section of the main dam. It will be separated by a plain bulkhead from the sluiceway section which will have seven sluices, two of them motor-operated. The motor-operated sluices will be capable of discharging

the full water requirement of the station under normal flow conditions, or 5,600 cfs. The seven together are designed to carry all river-flow under flood conditions. Two plain bulkheads tie the structure into the banks of the river, and the bulkhead adjoining the powerhouse will incorporate the log-chute.

THUNDER BAY GENERATING STATION—FORT WILLIAM

Location — North shore of the Mission River in Fort William.

Initial Installed —100,000 kilowatts in one unit, 60 cycles.

Capacity

In-Service Schedule —1961.

Estimated Cost —\$26,000,000, including generation, step-up transformation, and high-voltage switching at the site.

Major items of equipment, including the turbo-alternator, steam generator, steam condenser, deaerator, and the turbine-house crane, have been purchased. The site has been prepared for construction work, and access roads and railway lines have been built. Dock construction is making good progress; pile-driving for this purpose was finished, and 15 per cent of the reinforced-concrete deck has been placed. Seventy-five per cent of the excavation in the powerhouse area was finished in preparation for pile-driving which is to commence in January 1959. In the outfall channel for the cooling water, about a third of the permanent steel sheet piling was driven and concrete beams were pre-cast. All work with the exception of the pile-driving was carried out by the Commission's construction forces.

Extensions to Stations in Service

Manitou Falls Generating Station (Capacity 65,700 kilowatts in 5 units)

The station is located on the English River 20 miles down stream from Ear Falls.

The generator and auxiliary mechanical and electrical equipment for the fifth unit were installed and the unit was placed in service on March 17, 1958.

CAMERON FALLS GENERATING STATION (Capacity 76,700 kilowatts in 7 units) and

Alexander Generating Station (Capacity 60,900 kilowatts in 5 units)

These two stations, located some 65 miles northeast of Port Arthur,

are on the Nipigon River, which flows from Lake Nipigon into Lake Superior. At each station the capacity has been increased by the addition of one unit. At Cameron Falls Generating Station concreting of the powerhouse headworks structure was completed. The turbine, the generator, and the auxiliary equipment, both mechanical and electrical, were installed. The unit was placed in operation on September 9. At Alexander Generating



ALEXANDER GENERATING STATION — An extension to the power-house now houses an additional generating unit, which, when completed in 1958, became the fifth unit in service at the station.

Station installation of the generator and auxiliary equipment was completed; the unit was placed in service on April 15.

ABITIBI CANYON GENERATING STATION (Capacity 226,000 kilowatts in 5 units)

Work continued for the installation of a new 60-cycle generator in the No. 3 position formerly occupied by a 25-cycle unit. The latter had been removed and installed at DeCew Falls Generating Station to meet urgent power requirements during World War II. Following standardization of the DeCew Falls station at 60 cycles the turbine of this unit was returned to Abitibi Canyon Generating Station where it will be used to drive the new 60-cycle generator under operating conditions for which it was specifically designed.

WHITEDOG FALLS GENERATING STATION

Location —30 miles northwest of Kenora and 12 miles due east of the Manitoba boundary.

Dependable Peak —53,700 kilowatts in three units, 60 cycles.

Capacity

Rated Head —50 feet.

In Service — Unit No. 1, February 17; Unit No. 2, March 25; Unit No. 3, June 16, 1958.

Cost at December 31, —\$21,250,000 including generation, step-up transfor-1958. mation, and high-voltage switching at the site.

Whitedog Falls Generating Station, on the Winnipeg River, is approximately 2 miles up stream from the confluence of the Winnipeg River with the English River. The selection of this site and the decision subsequently to develop 67,500 kilowatts at Caribou Falls on the English River represented one of several alternatives for the economic exploitation of the hydraulic head remaining on these two rivers. Previously consideration had been given to building a station at Boundary Falls some 14 miles down stream from the confluence of the rivers, thereby concentrating at one point the total flow of the Winnipeg River and the English River. This would have had certain economic advantages over the two-station development if the establishment of operators' colonies had been a consideration. The saving represented by establishing one colony instead of two was no longer relevant, however, when it was decided, in view of recent advances in techniques and equipment, to operate the stations by remote control. With the rapid growth in demand in the Northwestern Division there were also distinct advantages in bringing part of the total capacity more quickly into service by developing Whitedog Falls first and Caribou Falls later.

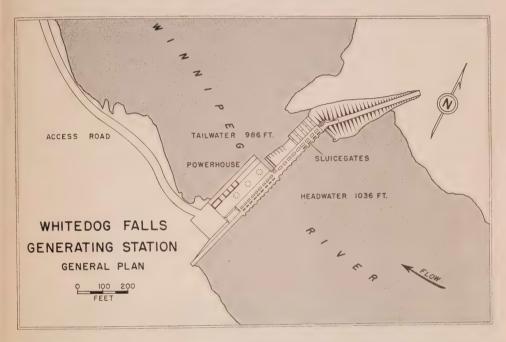
Location

The main dam spans the south channel of the river at the downstream end of Whitedog Island, some 30 miles northwest of Kenora. A rock-fill dam closes the north channel of the river at the upstream end of the island and an earth-fill dam closes off an area of low land on the island itself. Flow in the river, as regulated by the Lake of the Woods Control Board, averages 10,000 cfs. At maximum output the station will be capable of using 16,000 cfs. This peaking capacity will be used eventually to supplement base-load production in thermal-electric stations.

Construction Schedule

Work on the access road was begun in September 1955. This road extends, from a point on the Canadian National Railways about 2 miles west of Minaki, some 16 miles to the site.

Excavation of the diversion channel and construction of the four diversion sluices were carried out in the dry. Later the end plugs of the channel were removed and the river was allowed to flow through the partly finished diversion sluices, which eventually became part of the main sluiceway structure. The powerhouse area was then cofferdammed and excavated. Powerhouse construction was completed in 1957 and the first unit was placed in service in February 1958.



Main Dam

The main dam extends 1,150 feet across the south channel of the river at the downstream end of Whitedog Island. It incorporates the powerhouse and headworks adjoining the south bank of the river, and a sluiceway section to the north separated from the powerhouse by a short bulkhead section. The ends of the structure are tied into the banks of the river by a concrete gravity section adjacent to the erection bay at the south shore, and at the north shore by an earth-fill section adjacent to the log-chute head-block. In the conventional headworks, served by a 40-ton travelling crane, intermediate piers divide each of the three intakes into three inlet bays. Each of the three headgates regulating flow to a turbine is operated by an electric hoist controlled from Kenora Switching Station. There are nine 18-foot main sluices, two of them equipped with motor-operated gates similarly remotely controlled. These two sluices are capable of discharging a flow equal to that required by the three units operating at rated capacity. The other seven sluices, equipped with steel gates operated by the headworks crane, can discharge a maximum of 60,000 cfs.

Powerhouse Equipment

The three turbines, supplied by Dominion Engineering Company Limited, are of the vertical-shaft, fixed-blade, propeller type, each rated at 27,000 brake horsepower under a net head of 50 feet. The underside of each blade is protected at the outer edge by a concentric strip of stainless steel 24 inches wide, two- to three-sixteenths of an inch thick, and fused on by electric arc. Its purpose is to minimize pitting by cavitation. The turbines are set in concrete scroll-cases, conventional in design, but unusual in one aspect of their construction, that the concrete roofs were completed in one pour rather than by the conventional four-segment method. The method used, involving the addition of an air-entraining agent and a small proportion of fly ash in the concrete, permitted a considerable saving in time and costly intricate formwork.

The 13.8-kv, 60-cycle, 105.9-rpm generators, supplied by Canadian Westinghouse Company Limited, are equipped to operate either as generators or as synchronous condensers. As generators they are each rated at 24,000 kva at 0.90 power factor, and as condensers at 15,000 kvar at zero power factor. The power is stepped up from 13.8 to 115 kv by a bank of three single-phase, 25,000-kva transformers on the downstream deck of the powerhouse. A 25-ton electric travelling gantry-crane serves the tail-race gates.

Power into the System

The 115-kv switchyard provides switching facilities for both Whitedog Falls and Caribou Falls Generating Stations. Two 115-kv transmission



WHITEDOG FALLS GENERATING STATION — In June 1958 the third and final generating unit was placed in service at this station, which will be operated by remote control from Kenora Switching Station.

circuits connect the switchyard with Kenora Switching Station, which is also the point from which the station is controlled. Remote control is maintained by a relay supervisory system using electric impulses over a relatively few signalling channels. The equipment, in addition to controlling electrically operated devices, will provide illuminated indication of device positions, and telemetering of electrical and mechanical quantities. This is the Commission's first installation of power-line carrier equipment using transistors, and its first remotely controlled station where control and telemetering signals are transmitted through carrier channels over the main power lines. The supervisory equipment will control operation of sluicegates, headgates, turbines, generators, circuit-breakers, and associated electrical and mechanical devices.

CARIBOU FALLS GENERATING STATION

Location —41 miles northwest of Kenora and 8 miles due east of the Manitoba boundary.

Dependable Peak 67,500 kilowatts in three units, 60 cycles.

Capacity

Rated Head —58 feet.

In Service — Unit No. 1, July 27; Unit No. 2, September 11; Unit No. 3, October 11, 1958.

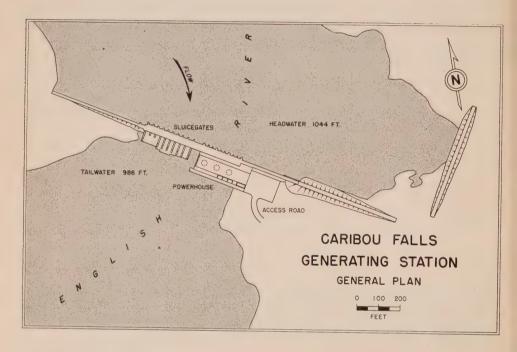
Cost at December 31,—\$23,300,000 including generation, step-up transformation, and high-voltage switching at the site.

Caribou Falls Generating Station is the third of four developments planned by the Commission to exploit the 174.5-foot head available on the English River between the outlet from Lac Seul and the Manitoba boundary. The three stages represented by Ear Falls, Manitou Falls, and Caribou Falls Generating Stations have now developed 138.5 feet of the total available. The Lake St. Joseph diversion by which an average flow of about 2,800 cfs is diverted from the Albany River watershed into the English River has increased the capacity of all three stations.

Construction Schedule

The station is located about 8 miles east of the Manitoba boundary. Access to the site was provided by a 16-mile northwesterly extension of the road to Whitedog Falls. Work on the road was begun in the latter part of 1956. Clearing of the headpond area in conformity with regulations of the Provincial Department of Lands and Forests was begun at about the same time by a number of contractors. This area, stretching about 22 miles up stream from the powerhouse site and some 52,000 acres in extent, included, before construction of the station, 32,000 acres of water surface and about 18,000 acres of forest. All of the latter had been cleared of timber by the end of 1957. Payment to contractors was based on computations from photogrammetric surveys. This timber clearing operation was the largest of its kind ever undertaken by the Commission.

Construction of the project began in June 1956. Work was carried out in two stages. The first involved the cofferdamming of the powerhouse area and the erection in that part of the river channel of substructures for the powerhouse and seven adjoining sluices. The second stage involved cofferdamming the other part of the original channel and the construction of the remainder of the main dam and two additional sluices after the first cofferdams had been removed and the entire river-flow was permitted to pass through the first group of sluices.



Main Dam and Powerhouse

The main dam comprises a conventional, 3-unit powerhouse with integral headworks, nine 18-foot control sluices, a gravity section at each end, and an earth-fill embankment at the approach from the east bank of the river. The sluices have a combined discharge capacity of 74,000 cfs. Two sluices, equipped with power-operated sluicegates controlled from Kenora Switching Station, are capable of discharging the flow requirement of the powerhouse in the event of a shut-down. The structure in general corresponds closely with that of Whitedog Falls Generating Station, the only major difference in design requirement being the 8-foot greater head at Caribou Falls. turbines, incorporating relatively minor changes to allow for the consequent increased turbine discharge, were supplied by Dominion Engineering Company Limited, who also manufactured the Whitedog Falls turbines, Each turbine is rated at 34,000 brake horsepower. They are of the fixedblade, propeller type, directly connected to 13.8-kv, 3-phase, 60-cycle generators rated at 28,500 kva at 0.90 power factor. The generators were supplied by Canadian General Electric Company Limited.

Power into the System

One bank of three single-phase, 27,500-kva transformers, located on the downstream deck of the powerhouse, steps up the voltage from 13.8 to 115 kilovolts. A 115-kv transmission line carries the output of the station to the switching structure at Whitedog Falls Generating Station where switching facilities are provided for both stations. Two 115-kv transmission circuits connect this switchyard with Kenora Switching Station.

Caribou Falls Generating Station is remotely controlled from Kenora Switching Station by the same type of equipment used for the control of Whitedog Falls Generating Station. (q.v.)

Transformer Stations and Transmission Lines

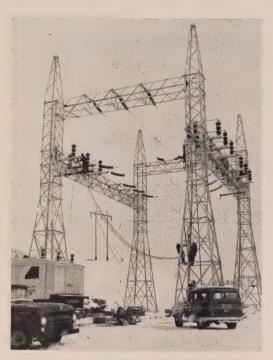
During 1958 approximately \$10 million was spent on transformation and transmission facilities in the northeastern and northwestern sections of the Province. As a result new load requirements were met and greater service security was achieved. Major items of equipment were installed at Kirkland Lake, Timmins, and Elliot Lake Transformer Stations in the northeast, and at Fort Frances and Port Arthur Transformer Stations in the northwest.



CARIBOU FALLS GENERATING STATION — Construction of this three-unit generating station on the English River was completed in October, 1958. The gravity-type dam structure is 1,260 feet long and incorporates 9 sluiceways. Operated by remote control from Kenora Switching Station, the station will have a dependable peak capacity of 67,500 kilowatts.

Northeastern Division

The standardization of 25-cycle loads at 60 cycles in the northeast required the installation of additional transformation capacity at Timmins Transformer Station and the construction in total of about 70 miles of



Construction and maintenance crews work that year round in all types of weather. Here in the northwestern section of the Province work is carried out in a switchyard in sub-zero temperatures.

associated 115-kv line. Early in March two 14,500-kva, 115-26.4-kva transformers were placed in service at this station and the construction was completed for lines connecting Timmins Transformer Station with Kirkland Lake Transformer Station and Upper Notch Generating Station. In conjunction with this work a 75,000-kva voltage-regulating transformer was installed at Kirkland Lake Transformer Station to maintain voltages at appropriate levels. The voltage regulator will assist also in the control of voltage on circuits from Abitibi Canyon Generating Station when the incorporation of a 60-cycle generating unit there is completed.

During 1958, power consumption in the Blind River area on the north shore of Lake Huron increased steadily. At the end of the year it represented about 25 per cent of the customers'

demand in the northeast. To provide additional power, the Commission completed a 210-mile, 230-kv, single-circuit, wood-pole line to Blind River Transformer Station from Otto Holden Generating Station and increased the capacity of Elliot Lake Transformer Station, located in the heart of the mining area, to 45,000 kva. Three 15,000-kva, 115—44-kv transformers, together with 30,000 kvar of switched capacitors, now serve the area from Elliot Lake Transformer Station. Similar capacity was installed at Quirke Lake Transformer Station, which is located about 10 miles north of Elliot Lake and supplies power to the same area.

A 22-mile, 115-kv line from Abitibi Canyon Generating Station was cut through dense bush country in the fall of the year to supply construction power to the site of Otter Rapids Generating Station. This line and the 115-kv line from Abitibi Canyon Generating Station to Kirkland Lake Transformer Station will serve later to connect the new Otter Rapids Generating Station to the system; however, final transmission arrangements will depend on the economy of developing other sites situated north

of Abitibi Canyon. Already some consideration has been given to the possible construction of a central gathering station in the north and the transmission of power southwards at voltages up to 460 ky.

Northwestern Division

Final connections were made early in May for the new 115-kv lines and switching facilities in Fort William which supply power to several

industrial users. Short lines from Fort William Switching Station were carried across the Kaministikwia River by means of two special steel towers one 229 feet in height and the other 209 feet with a line span of 1,381 feet. At Port Arthur Transformer Station No. 1 the capacity of the station was increased with the installation of two banks of three 14,000-kva, single-phase transformers. Two 15,000-kva transformer banks previously in use were removed.

Three 26,640-kva, single-phase, 110/121—44-kv auto-transformers were placed in service at Fort Frances Transformer Station in midsummer. The new transformers serve two purposes. They provide suitable voltage levels for the supply of power to the Ontario-Minnesota Pulp and Paper Company and they supply



SILVER FALLS GENERATING STATION — Washing down a finished section of the hydraulic tunnel which will carry water from Dog Lake to the powerhouse. The concreting of the tunnel to its finished diameter of 14.5 feet will be completed early in 1959.

certain municipal and rural loads in the area west of Fort Frances.

In November, construction of a 115-kv, single-circuit transmission line was begun from Dryden Transformer Station to Sunstrum Junction, a distance of 17 miles. When completed early in 1959, the line will be operated at 44 kv to supply power to Sioux Lookout, Hudson Townsite, and Sioux Lookout R.O.A. It will also provide for future increases in power demands in this area.

SECTION VI

RESEARCH AND TESTING ACTIVITIES

THE facilities of the Commission's laboratories and the combined skills of research engineers, scientists, and technicians serve all branches of the organization for the purpose of analysing and solving many and varied problems relating to power-system operation. The work includes study of major aspects of the construction and maintenance of large power facilities, and evaluation of the performance of a wide variety of materials and supplies.

FURTHERANCE OF DESIGN WORK

Extra-High-Voltage Transmission

Preliminary studies of requirements for the Commission's first extrahigh-voltage transmission system indicated that the specified voltage level may be higher than that of any system now in operation on this continent. Relatively large loads and long distances are involved and transmission facilities will represent a large part of total system cost. Economies resulting from refinement of the transmission-line design may, therefore, yield worth-while savings.

Extensive study was given to many factors—radio interference, corona losses, and insulator losses—which have a bearing on design. In order to obtain detailed design data concerning these and other factors, proposed line designs will be tested at voltages up to 600 kv using a 1-mile full-scale test line equipped with the necessary facilities, which the Commission plans to build near Coldwater.

Electric Water-Heater Units

As part of the program to promote increased use of automatic electric water-heaters, the Commission established the basic requirements for units having a fast recovery feature. This feature considerably shortens the period necessary for re-establishing an adequate supply of hot water. In order to establish rates for the use of such equipment, extensive study was undertaken regarding the load characteristics of a representative group of customers' units meeting the new performance standards. On the basis of the Commission's experience over the past twenty years, new purchase specifications were developed for domestic water-heaters, one important consideration being the suitability of various types of tank for local water-supply conditions.

Nuclear Power Development

Assistance is being given to those agencies in Canada who are occupied in the development and construction of nuclear reactors. Consideration was given to the problem of aggregates for heavy concrete, and the analysis of reactor-vault stresses.

Aggregate studies have confirmed the suitability of hematite-ilmenite ore for the more commonly used heavy concrete (220 pounds per cubic foot). On the basis of tests, ferrosilicon is no longer being considered for the heavier concrete (300 pounds per cubic foot) for special shielding, and an alternative material, ferrophosphorus, is being investigated.

As a result of the reactor-vault study, instruments will be incorporated in the vault to measure the stresses caused by thermal gradients and by restraint during operation of the station.

Code for Domestic Antennae and Supporting Structures

Power interruptions resulting from radio and television antennae and supporting structures falling across power lines are of considerable concern to municipal electrical authorities. Following a survey in the Toronto area, recommended amendments to the present design code were drawn up in terms readily understandable by electrical inspectors and the general public. These have been circulated among municipal authorities to aid in drafting a practical code.

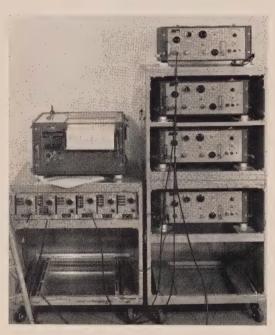
Optimum Damping of Transmission-Line Vibration

Further study of aeolian vibration of transmission lines has indicated that optimum economical damping requires neither the number nor the weight of torsional dampers commonly used. For most sizes of transmission-line conductors only one damper is required per conductor span instead of two, and for larger-size conductors the weight of each damper can be reduced by about 40 per cent. The use of silicone rubber in place of neoprene for damper washers offers possibilities for improved performance.

AIDS TO MORE ECONOMICAL OPERATION

Method for Optimum Scheduling of Hydraulic Power Production

A method based on dynamic programming and using the Commission's electronic computer has been developed whereby hour-by-hour allocations of available water can be made to the two main generating stations, the forebay, and the storage reservoir at the Sir Adam Beck-Niagara Generating Stations. The application of the method would permit the maximum economic power output to be realized over a given short scheduling period, 24 hours for example.



An oscillograph of the latest design, one of the "hot-pen" direct-writing types, with banks of amplifiers and calibrating units. It is used to investigate system stability and voltage fluctuation.

Fly-Ash Utilization

As the use of coal-burning stations is extended to meet the growth in power demands, the problem of disposing of fly ash produced by these stations will grow correspondingly. Fly ash is being used in the Commission's construction work in applications that are economically and technically feasible, and preparations are being made to extend its use wherever practical. At Otter Rapids Generating Station 12,000 tons will be used in the concrete. Efforts are being directed to developing a large-volume market for the material. Development work, which is well advanced, has been done on lightweight fly-ash aggregate and

on the stabilization of in-place materials for road base-course construction.

Improved System-Voltage Control with Load-Angle Limiter

For purposes of system-voltage control, reactive power is either obtained from or absorbed by synchronous condensers. A 10 to 20 per cent increase in the amount of reactive power which can be absorbed by condensers, with a resulting improvement in voltage control, was 'achieved by means of a load-angle limiter devised for the purpose. The use of this device will obviate the need in some locations for installing static reactors and larger condensers.

Alternative Techniques for Application of Power-Line Carrier Signals

When power-line carrier channels are used for remote control of generating stations, adequate signal transmission must be maintained even during power-line faults. In a study of alternative techniques for achieving this end, the performances of line-to-line and line-to-ground coupled carrier systems were compared under simulated ground-fault conditions, with carrier equipment coupled to a de-energized 230-kv transmission line. It appears that, except for faults occurring close to the ends of the line, the line-to-ground coupling is almost as effective as the more expensive line-to-line coupling.

Effects of Higher Operating Temperatures on Aluminum Steel-Reinforced Conductors

Investigation was undertaken regarding the possibility of increasing the maximum permissible operating temperatures for aluminum steel-reinforced conductors, even to the point of annealing the aluminum. Tests were made on one size of acsr both standard tempered and with the aluminum portion annealed; the breaking strength of aluminum-annealed acsr proved to be still sufficient for service conditions, though the conductor sag may be unacceptable for some locations. There was also some opening out or "bird caging" of the annealed aluminum strands after relatively high mechanical loads.

IMPROVED MAINTENANCE PRACTICES

Chemical Control of Conifers

The chemical herbicides 2,4-D and 2,4,5-T are effective for the control of

deciduous growth but they have little effect on conifers such as spruce and balsam. Consequently these conifers have become the dominant vegetation on thousands of acres of the Commission's rights of way. A series of experimental-plot tests carried out over a five-year period has indicated that sodium trichloroacetate applied as a high-volume aqueous spray offers more



Ontario Hydro and commercial ground-line preservatives are tested on wood-pole stubs in this special test plot.

satisfactory control than some twenty other likely chemicals tested. During the past two years sodium trichloroacetate applied in this manner was used successfully on about 4,000 acres of rights of way.

Use of Epoxy Resin for In-Place Repair of Insulation

Insulation repair of various large items of electrical equipment by conventional methods is quite costly since it involves dismantling and reassembly. Furthermore, since it is not always practical to provide ready spare equipment, outages may be quite lengthy. The use of epoxy resin for in-place repairs has greatly reduced the difficulties, delays, and expense involved in former methods, and the possible extension of its use for in-place maintenance work on numerous items of electrical equipment could result in major savings.

Prevention of Corrosion of Lead-Sheathed Underground Cable

Equipment designed and built for the purpose of testing the performance of different types of covers for the prevention of corrosion in lead-sheathed underground cable was also used to evaluate field methods of covering cable joints. An 18-month test program has established the superior effectiveness of extruded polyethylene and polyvinyl chloride covers for cables.

Advances in Construction Procedures



SILVER FALLS GENERATING STATION — A steel surge tank under construction near the powerhouse extends 90 feet down a shaft to the hydraulic tunnel. When completed it will prevent serious fluctuations in hydraulic pressure in the tunnel.

Low-Lift Procedures in Mass-Concrete Construction

It has been the Commission's general practice to place mass concrete in high rather than in low lifts since the latter procedure requires special precautions to prevent vertical cracking. Objections to the use of low-lift placement have been largely overcome with the recent development of a modified lowlift procedure in which a limit is placed, not on the mimimum period between lifts, but on the maximum period. This permits the principal advantages of both high- and low-lift placement to be realized. The new procedure will be used for the dam at Otter Rapids.

Blasting and Fire Investigations

To gain further knowledge of the effects of blasting, the Commission



A researcher measures the slow elongation of metals which are subjected to a constant load at various temperatures.

took advantage of the evacuation of the headpond area of the St. Lawrence Power Project to arrange for staged tests. Controlled blasting was done in the vicinity of several abandoned buildings. The information obtained from these and other tests performed in the area will contribute to greater effectiveness in blasting operations in the future. Previously tests on other abandoned buildings had been staged for the National

Research Council and the Ontario Fire Marshal's office to provide valuable data on the early stages of combustion.

OTHER INVESTIGATIONS

Air-Pollution Studies

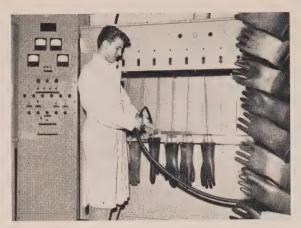
Close co-operation is being maintained with government authorities

and others active in airpollution prevention. Laboratory studies were undertaken on the development, evaluation, and improvement of air-pollution measuring techniques. As part of an extensive longterm investigation a continuous record is being kept of air pollution in the vicinity of Richard L. Hearn Generating Station and in the area around the site of Lakeview Generating Station in order to relate present conditions with subsequent



Laboratory technicians analyse commercial lubricants.

trends. The most important consideration is that air pollution shall not be increased significantly by expanded operation of coal-fired generating stations in the Toronto area.



A research technician prepares linemen's protective rubber gloves for dielectric-strength tests.

Insulating Materials Subject to Voltage Stress Under Outdoor Conditions

A program of continuous high-voltage a-c and d-c tests of insulating materials exposed to outdoor conditions is in progress. These tests are the initial stages of an investigation into the possibility of using materials other than glass and porcelain for outdoor exposure under high-voltage stress. Results of the study will

also supplement present knowledge of the dielectric properties of the newer synthetic materials.

Single-Phase Load Characteristics of Rural Services

As part of an extensive survey designed to obtain information on the load characteristics of single-phase rural services a one-year survey was completed in one rural operating area. The information will be used in the technical evaluation of watt-hour meters of various types and makes, in the determination of optimum meter ratings, and in the establishment of suitable maintenance schedules.

SECTION VII

STAFF RELATIONS

THIS Section describes some of the special activities through which the Commission seeks to raise staff morale, enhance the level of employee effectiveness, and effect savings in the costs of operation. It tells also of the continuing efforts to reduce accidents and protect the health of employees. The achievements recorded throughout this Report are strong evidence of the continuing soundness of basic staff relations within the Commission.

Employment Statistics

The maximum number of persons in the Commission's employ during 1958 was 18,731 in the month of July, when there were 4,759 employed as temporary construction workers, also a maximum for the year. The number of regular employees declined steadily from month to month throughout the year. The total staff over the twelve months on the average was 17,701, of whom 13,951 were regular and 3,750 were temporary employees. This represents a reduction in average total staff of about 9.7 per cent, as compared with 1957.

Manpower Planning and Development

One of the major problems confronting the Commission is the placement of persons who are being released in large numbers from duties on particular

undertakings, the St. Lawrence Power Project for example, which are now approaching completion. The importance to the organization of retaining the skill and experience of employees with several years' seniority and training is obvious. The Commission is also anxious, wherever possible, to relocate in the continuing organization those who have given years of outstanding service on such extensive temporary projects as frequency standardization. During 1958 about 840 persons were relocated in situations where they can work with advantage to the Commission and satisfaction to themselves. This has been a contributing factor in a 60 per cent reduction in the annual number of applicants hired from outside sources. With the increase in numbers of engineers and scientists available, the Commission has had no difficulty in meeting its requirements for engineers in the Junior Engineers Training Course. The number so engaged in 1958 was somewhat smaller than in 1957.

Study courses have been conducted for the purpose of broadening the experience and extending the skills of the staff. Over 500 persons at



Commissioner D. P. Cliff congratulates H. L. Lidstone, winner of an award under the Commission's Suggestion Plan. In 1958 awards totalling \$10,677 were given for 165 approved suggestions received from employees.

management levels have participated in this type of training. More than 800 tradesmen were occupied in formal training over and above regular on-the-job instruction in order to keep abreast of recent developments in trade techniques.

Members of the staff at all levels of the organization are participating in increasing numbers in courses given by universities, trade schools, and management associations. Financial assistance is provided by the Commission in accordance with a scale based

on the applicability of the training to the participants' work. Within the Hydro organization seminars for engineering staff were held outside office hours to enable engineers and technicians to extend their knowledge of power-system operations and economics. The response to these seminars has been most gratifying.

Employee Suggestion Plan

Employees received 165 awards totalling nearly \$10,700 for valuable suggestions made under the plan inaugurated in June 1957. Four of these awards were maximum grants of \$1,000. In total, 1,782 suggestions were received during the year, an average of about 150 per month and one for every 10 employees. From every point of view the plan has proved most

successful—in stimulating employee interest, developing new approaches to problems, and achieving efficiency and economy in general. It is estimated that annual savings of \$82,000 will result from the suggestions adopted. A number of suggestions for patentable items were reviewed, and the Commission agreed to assist financially in three applications for patent.

Area Work Standards Plan

The area work standards plan is now in effect in all nine regions; it was introduced into three regions in 1958. Measured against a standard of efficient performance, the achievements of line crews varied widely. The staff has been interested and co-operative in the application of standard measurement so that considerable improvement in productivity has been recorded. If, as a result of developing standards for most of the routine work performed, improvements of this kind could be achieved, the saving in time and manpower would be substantial.

Industrial Relations

Negotiations for the renewal of collective agreements with unions representing the Commission's employees began early in February with the

first discussion with the Ontario Hydro Employees Union, an affiliate of the National Union of Public Service Employees (CLC). Subsequently bargaining for the renewal of the collective agreements was begun in May with two locals of the International Union of Operating Engineers who represent stationary engineers and maintenance employees at the two large thermal-electric stations, and in July with the stationary engineers at Head Office.



The Commission maintains an extensive library of technical works relating to the production of electricity in all its phases.

Agreements were signed with the representatives of the Head Office operating engineers in August and with the representatives of the generating stations employees in September.

The Ontario Hydro Employees Union, in the course of their negotiations, requested the conciliation services of the Ontario Department of Labour in the settlement of a number of items in dispute. Conciliation procedures had not achieved a settlement at the end of the year. In January, however, the Minister of Labour intervened to settle the points

at issue and agreement was reached in a memorandum of understanding which was implemented on February 26, 1959.

Joint Management-Union Committees continued to study topics of common concern such as job evaluation, problems of operating colonies, the transition to electronic data processing, safety rules, and standard protection.

The agreement between the Allied Construction Council and the Labour Relations Association-St. Lawrence Power Project was renewed without significant change, effective until January 26, 1959. The co-operation of the companies and the unions involved in this extensive construction undertaking has been a prime factor in expediting the completion of the work. The Provincial agreement covering employees of the Construction Division engaged on line and station construction and on other special projects expired on July 31, 1958. Renewal was delayed pending the settlement of a jurisdictional dispute between the Allied Construction Council and the Toronto Building and Construction Trades Council with respect to construction employees at Lakeview Generating Station.

Engineers in the service of the Commission constitute a professional group. Since it is the general practice of employers of large groups of professional engineers not to deal with them collectively, the Commission terminated its formal agreement with the Society of Ontario Hydro Professional Engineers on April 1, 1958. The Commission, however, continues to discuss matters of common interest with the Society, which represents the large group of engineers on the Commission staff. Regular meetings are held with the executive of the Society for this purpose.

Accident Prevention

The frequency ratio of accidents to man-hours worked in 1958 declined from that established in 1957, and was some 12 per cent below the average for the five-year period 1953 to 1957. In general, safety conditions on project work were improved.

The results of the unflagging program of driver testing and training are evident in the continued decline in motor vehicle accidents. The driving competitions in which employees have participated enthusiastically are also having beneficial results.

Three members of the staff were responsible for saving lives through the application of artificial respiration. Mr. Gordon Taylor was successful in reviving a 5-year-old girl, and Mr. Ronald Cable assisted his father in the resuscitation of a 9-year-old boy. Both of these children had been the victims of accidents while swimming. Mr. Robert Rowlandson was responsible for saving the life of a steam-shovel operator who suffered electric shock when his equipment came into contact with a high-voltage transmission line. Mr. Taylor will receive the National Safety Council President's medal, Mr. Cable was given a National Safety Council Certificate of Assistance, and Mr. Rowlandson a Canadian Electrical Association award.

Recognition was given by the Turtle Club to seven employees who escaped serious or fatal injury through the use of hard hats, and by the Wise Owl Club to one employee who avoided the loss of his sight by wearing safety goggles.

Medical Services

The Commission's medical program is directed primarily towards maintaining a high standard of health among all employees. In addition to regular pre-employment medical examinations, of which there were 1,839 in 1958, periodic examinations were given to members of a selected group whose physical condition is kept under continuous review. The benefits arising from these periodic checks are quite evident.

A total of over 13,700 visits were made by employees to the various Commission medical centres in Metropolitan Toronto and 1,700 calls were made by the nursing staff to injured or ailing employees confined at home or in hospitals. No major epidemics affected the staff during 1958 and the level of general health was quite high.

With the sharp reduction in the scope of construction operations at the St. Lawrence Power Project at mid-year, the hospital at Cornwall was closed in June. The Whitedog Falls Generating Station hospital was also closed in October. At the Otter Rapids construction site a ten-bed hospital was opened in November to provide medical services for employees and their families. Other construction projects are equipped with first-aid posts, and at Silver Falls a physician is available on a part-time basis.

Courses in first-aid treatment were given to over 4,300 employees during the year.

The Commission's comprehensive hospital and medical insurance plan was modified in accordance with the requirements of the recently introduced Ontario Hospital Services Commission plan. The transfer of administration was completed without disturbance to the benefits provided under the former group scheme.



APPENDIX I—OPERATIONS

THE tables in Appendix I are supplementary to the descriptive information on the year's operations given in Section I, and to information relating to the delivery of power and energy in wholesale quantities given in Section III.

The tables of power demands and resources give for each system and in total the primary peak requirements for the month of December, and the dependable capacity of the Commission's resources at the time these peak requirements occurred. A separate table on pages 112 and 113 gives the dependable capacity and the actual maximum output of each Commission-owned station and each source of purchased power. The dependable capacity of a station is the net output which it can be expected to supply at the time of the system primary peak requirements, assuming that all units are available and that the supply of water is normal. This capacity may be recalculated from time to time in accordance with changing conditions. The capacity of a source of purchased power is based on the terms of the purchase contract.

The Analysis of Energy Sales on pages 116 and 117 shows how the kilowatt-hours generated or purchased by the Commission and the associated municipal utilities were distributed to the various classes of ultimate customers or to interconnected systems.

Beginning on page 118 there is a table dealing primarily with the power and energy supplied in wholesale quantities to the municipal electrical utilities and local systems. It also records the date when power was first delivered by the Commission to each as a separate municipal system. The peak loads shown are those for December, the month when municipal maximum requirements usually occur, and not the average of the monthly peak loads used in the Cost of Power Statement.

Statistics of peak loads and capacities are given, as elsewhere in the Report, in kilowatts rather than in horsepower. The kilowatt figures may be converted to horsepower by assuming that one horsepower is equivalent to 0.746 kilowatts.

THE COMMISSION'S POWER RESOURCES-1958

	1		1	
		Depend- able capacity*	Maximum output*	Annual energy output
Southern Onta	rio System	kw	kw	kwh
River	Hydro-Electric Generating Stations			
Niagara	‡Sir Adam Beck—Niagara No. 1	441,000	430,000	3,183,268,800
<u> </u>	Sir Adam Beck—Niagara No. 2	1,336,000	1,302,000	8,102,063,600 76,113,600
	Pumping-Generating Station	168,000 135,000	136,000	1,049,522,000
	†Ontario Power †Toronto Power	108,000	107,000	582,329,400
Welland Canal	DeCew Falls No. 1.	36,000	34,500	156,043,300
Welland Canar	DeCew Falls No. 2.	120,000	134,000	735,325,600
Muskoka	Ragged Rapids	7,500	7,900	35,157,880
	Big Eddy	7,100	8,150	28,301,023
	Bala No. 1 and 2	350	0	07 122 040
South Muskoka	South Falls	4,200 1,600	4,450 1,600	27,133,040 9,739,200
	Trethewey Falls	1,200	1,400	6,725,100
Beaver	Hanna Chute Eugenia	5,400	5,120	17,849,600
Severn	Big Chute	4,300	4,440	26,742,800
Saugeen	Walkerton	350	0	0
iou agoon	Hanover	250	150	908,400
Magnetawan	Burks Falls	250	135	492,000
Trent	Heely Falls	11,150	12,000	58,208,820
	Ranney Falls	8,350 5,100	8,820 5,925	47,153,460 32,604,420
	Meyersburg	3,350	3,575	18,930,600
	Sidney	3,250	3,825	20,246,410
	Seymour	2,950	3,175	17,478,240
	Frankford	2,550	2,850	14,721,600
	Sills Island	1,550	945	5,925,220
Otonabee	Auburn	1,750	1,765	9,522,200
	Lakefield	1,650	1,500	6,983,640 2,866,900
C: T	Fenelon Falls	700 409,000	365 376,000	1,047,666,500
St. Lawrence Ottawa	Robert H. Saunders-St. Lawrence Des Joachims	372,000	375,000	2,238,535,800
Ottawa	Otto Holden	210,000	218,000	1,151,251,700
	Chenaux	117,000	117,000	750,793,600
	‡Chats Falls (Ontario half)	82,000	85,000	512,542,250
Madawaska	Stewartville	63,000	65,000	259,903,400
	Barrett Chute	42,000	41,750	227,770,200 28,977,300
Mississippi	Calabogie	4,400 2,450	4,530 2,800	14,890,560
Mississippi	High FallsGaletta		635	4,418,200
Rideau	Merrickville	900	720	3,337,990
Total hydro	o-electric	3,722,400		20,360,217,153
Location	Thermal-Electric Generating Stations			
Windsor	J. Clark Keith (steam)	244,000	128,000	138,386,200
Toronto	Richard L. Hearn (steam)	372,000	390,000	463,005,400
Total thern	nal-electric	616,000		601,391,600
Total Souther	n Ontario System	4,338,400		20,961,608,753

^{† 25} cycle.

‡ 25 and 60 cycle.

* The power capacity and output referred to in this table are 20-minute peaks for the month of December. Since the various maximum outputs do not coincide, their sum is not the peak load of the system.

THE COMMISSION'S POWER RESOURCES—1958

		Depend-		Annual
Northern Ontar	io Properties	able	Maximum	energy
NORTHEASTERN D		capacity*	output*	output
River	Hydro-Electric Generating Stations	kw	kw	kwh
Abitibi	†Abitibi Canyon	181,000	175,000	1,224,560,000
Mississagi	George W. Rayner	47,000	47,400	252,126,470
Mattagami	†Wawaitin	10,800	9,200	52,537,384
	†Lower Sturgeon	6,000	6,000	43,159,041
	†Sandy Falls	2,700	2,700	17,801,784
Montreal	Upper Notch	8,400	8,300	54,886,000
	Hound Chute	3,600	3,740	27,155,200
	Indian Chute	3,000	3,000	21,179,000
	Fountain Falls	2,000	2,000	16,288,770
Wanapitei	Stinson	5,700	4,830	17,617,260
•	Coniston	4,100	4,200	20,124,980
	McVittie	2,200	2,300	12,701,320
Matabitchuan	Matabitchuan	8,800	6,640	51,505,580
Sturgeon	Crystal Falls	8,200	5,550	40,642,300
South	Nipissing	1,600	1,590	11,399,840
	Elliott Chute	1,400	1,380	6,248,200
	Bingham Chute	900	940	5,120,920
Kagawong	Kagawong		470	3,691,080
	electric	297,400		1,878,745,129
Location	Diesel-Electric Generating Stations	200		0.040
Kagawong	Kagawong (diesel portion)	300	0	2,240
Chapleau	Chapleau	500	407	997,600
Hornepayne	Hornepayne	1,000	561	2,915,000
Total diesel-e	lectric	1,800		3,914,840
	tern Division	299,200		1,882,659,969
				2,002,000,000
Northwestern I				
River	Hydro-Electric Generating Stations	110 200	121 000	756 022 640
Nipigon	Pine Portage	119,200	121,000	756,833,640
	Cameron Falls	76,700	74,500	426,394,800
77 11 1	Alexander	60,900	65,300	400,593,800
English	Caribou Falls	67,500	82,000	137,194,200
	Manitou Falls	65,700	64,500	337,217,650
	Ear Falls.	15,900	16,500	104,830,200
	.Whitedog Falls	53,700	42,000	183,982,300
Aguasabon	Aguasabon	44,000	46,100	312,939,920
Kaministikwia	Kakabeka Falls	25,000	16,300	138,879,100
Albany	Rat Rapids		0	233,368
Total Northwes	stern Division	528,600		2,799,098,978
	-All systems	5,166,200		25,643,367,700
		0,100,200		20,010,007,700
Sources of Purch				
SOUTHERN ONTAR			06.000	107.052.000
	on Company		96,000	197,053,000
	poration		1,900	15,442,000
Niagara Moh	awk Power Corporation	4 5 000	129,000	29,274,000
	agara Power Company, Limited	15,000	23,000	30,057,000
	rity of the State of New York	407 000	412.000	2 655 245 000
	o-Electric Commission	187,000	412,000	2,655,345,000
Gatineau Pov	ver Company	213,000	236,600	1,468,225,000
Maclaren-Que	ebec Power Company	93,000	106,500	697,769,000
‡Ottawa Valle	y Power Company	82,000	85,000	516,736,150
Miscellaneous	s (relatively small suppliers)	2,000	0_	14,640,853
American de la companya del la companya de la compa	Ontario System	592,000		5,624,542,003
NORTHERN ONTAK	•			
NORTHEASTERN DI			9,500	5,665,040
tOuch as Header	r & Paper Company, Limited	1	32,000	137,330,871
Quebec Hyar	o-Electric Commission	1,200	1,080	8,230,748
	s (relatively small suppliers)			
	tern Division	1,200		151,226,659
NORTHWESTERN D	IVISION	4 500	4 404	14 757 005
Ontario-Minr	nesota Pulp and Paper Company	1,700	1,421	14,757,925
Manitoba Hy	dro-Electric Board		6,000	16,485,559
	stern Division	1,700		31,243,484
	-All systems	594,900		5,807,012,146
Total purchased—	Tan systems			31,450,379,846
Total generated a	nd purchased—All systems	5,761,100		01,400,079,040

POWER RESOURCES

			December dependable
		Commission stations	
	Hydro-electric	Thermal-electric†	Total
	kw	kw	kw
Southern Ontario System	3,722,400 2,967,400	616,000 616,000	4,338,400 3,583,400
Northern Ontario Properties Northeastern Division	297,400 297,400	1,800 1,800	299,200 299,200
Total—Combined systems	4,019,800 3,264,800	617,800 617,800	4,637,600 3,882,600
Net increase or decrease Southern Ontario System Northeastern Division	755,000	0	755,000
Combined Systems Northern Ontario Properties Northwestern Division	755,000 528,600	0	755,000 528,600
1957	366,000	0	366,000
Net increase or decrease Northwestern Division. 1958 Total—All systems. 1957	162,600 4,548,400 3,630,800	617,800 617,800	162,600 5,166,200 4,248,600

^{*} The capacities shown are those available for a 20-minute period at the times of system primary peak demand in each of the three operating systems in December, the capacity of sources of purchased power being based on the terms of the purchase contract. Requirements shown are the December coincident peaks for each system and their arithmetic sum.

ANNUAL ENERGY

Energy Made Available by the Commission

	19	057	19	58	Increase or Decrease
	les .	wh	ks	vh	per cent
SOUTHERN ONTARIO SYSTEM			AL. 1		per cent
Generated (net) hydro-electric thermal-electric	20,430,075,439 1,459,977,900	,	20,360,217,153 601,391,600		0.3 58.8
Total generated Purchased Transferred* in or out (net). Primary Secondary	21,890,053,339 4,585,966,580 759,884,000	22,076,428,819 3,639,707,100	20,961,608,753 5,624,542,003 1,099,669,000	22,633,438,156 2,853,043,600	4.2 22.6 44.7 2.5 21.6
Total	25,716,135,919	25,716,135,919	25,486,481,756	25,486,481,756	0.9
NORTHERN ONTARIO PROPERTIES NORTHEASTERN DIVISION Generated (net) hydro-electric diesel-electric	1,846,716,045 3.335,690		1,878,745,129 3,914,840		1.7 17.4
Total generated Purchased Transferred* in or out (net) . Primary Secondary	1,850,051,735 209,689,401 759,884,000	2,791,545,958 28,079,178	1,882,659,969 151,226,659 1,099,669,000	3,034,644,968 98,910,660	1.8 27.9 44.7 8.7 252.3
Total	2,819,625,136	2,819,625,136	3,133,555,628	3,133,555,628	11.1
NORTHWESTERN DIVISION Generated (net) hydro-electric Purchased	2,472,296,310 92,699,394		2,799,098,978 31,243,484		13.2
-	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.536.961.644	01,210,101	2 712 004 042	
PrimarySecondary		28,034,060		2,713,801,843 116,540,619	7.0 315.7
Total	2,564,995,704	2,564,995,704	2,830,342,462	2,830,342,462	10.3
ALL SYSTEMS Generated (net) hydro-electricthermal and diesel-electric	24,749,087,794 1,463,313,590		25,038,061,260 605,306,440		1.2 58.6
Total generated	26,212,401,384 4,888,355,375		25,643,367,700 5,807,012,146		2.2 18.8
Primary		27,404,936,421 3,695,820,338		28,381,884,967 3,068,494,879	3.6 17.0
Total	31,100,756,759	31,100,756,759	31,450,379,846	31,450,379,846	1.1

^{*} Net interchange between Southern Ontario System and Northeastern Division of the Northern Ontario Properties.

AND REQUIREMENTS

capacity*		_		
Sources of purchased power	Total dependable capacity*	Primary power requirements*	Reserve	Ratio of reserve to requirements
. kw	kw	kw	kw	per cent
592,000	4,930,400	4,252,715	• • • • • • •	
591,000	4,174,400	3,917,464	• • • • • • •	****
1,200	300,400	437,468		
1,200	300,400	459,117		
593,200	5,230,800	4,690,183	540.617	11.5
592,200	4,474,800	4,376,581	98,219	2,2
1,000	756,000	335,251		
2,550	0	21,649		****
1,000	756,000	313,602	442,398	* * * * *
1.700	530,300	448.821	81.479	18.2
3,300	369,300	406,880	37.580	9.2
1,600	161,000	41,941	119,059	
594,900	5,761,100	5,139,004	** .	**
595,500	4,844,100	4,783,461	**	**

^{**}There is no interconnection between the Northwestern Division and the other operating systems of the Commission, †Includes diesel-electric.

ACCOUNT

Energy Disposed of by the Commission in Wholesale Quantities

	1957	1958	Increase or Decrease
SOUTHERN ONTARIO SYSTEM	kwh	kwh	per cent
Primary—Municipal electrical utilities	13,070,004,020	13,976,502,536	6.9
—Local systems	4,228,836	4,268,080	0.9
—Interconnected systems, for resale	409,848,503	409,054,841	0.2
—Rural operating areas—Direct industrial customers	1,975,428,718 4,729,240,185	2,185,504,319 4,145,112,482	10.6
			12.4
Total primary	20,188,750,262 3,486,071,200	20,720,442,258 2,701,329,000	2.6 22.5
Secondary—Interconnected systems, for resale —Direct industrial customers	1,371,900	32,052,900	44.3
Total secondary	3,487,443,100	2,733,381,900	21.6
	23,676,193,362	23.453.824.158	
Total primary and secondary	2,039,942,557	2,032,657,598	0,9 0,4
	25,716,135,919	25,486,481,756	0.9
Total	25,710,155,919	25,480,481,730	0.9
Northern Ontario Properties Northeastern division			
Primary—Municipal electrical utilities	264,936,472	286,561,147	8.2
—Local systems	141,081,442 12.502.278	161,480,128 13.936,200	14.5 11.5
—Interconnected systems, for resale —Rural operating areas	175,050,243	229,023,868	30.8
Direct industrial customers	1.878.961.412	2.001,232,673	6.5
Total primary	2,472,531,847	2,692,234,016	8,9
Secondary—Interconnected systems, for resale	2,1,2,001,011		
—Direct industrial customers	22,545,304	96,123,307	326.4
Total secondary	22,545,304	96,123,307	326.4
Total primary and secondary	2,495,077,151	2,788,357,323	11.8
Losses and unaccounted for	324,547,985	345,198,305	6.4
Total	2,819,625,136	3,133,555,628	11.1
NORTHWESTERN DIVISION	416 022 624	443,819,260	6.7
Primary—Municipal electrical utilities—Local systems	416,023,634 14.094,324	16.369,460	16.1
—Interconnected systems, for resale	2.490,373	10,005,100	
—Rural operating areas	52,547,382	68,167,879	29.7
—Direct industrial customers	1,833,536,794	1,971,552,080	7.5
Total primary	2,318,692,507	2,499,908,679	7.8
Secondary—Interconnected systems, for resale	24 105 400	36,208,938 70,077,354	189.6
—Direct industrial customers	24,195,490		339.3
Total secondary	24,195,490	106,286,292	
Total primary and secondary	2,342,887,997 222,107,707	2,606,194,971 224,147,491	11.2 0.9
Losses and unaccounted for		2,830,342,462	10.3
Total	2,564,995,704	2,030,342,402	10.0
ALL SYSTEMS			
Primary	24,979,974,616	25,912,584,953	3.7
Secondary	3,534,183,894	2,935,791,499	16,9 0.6
Losses and unaccounted for	2,586,598,249	2,602,003,394	
Total	31,100,756,759	31,450,379,846	1.1

ANALYSIS OF by the Commission and Associated

	Sales by The
Sales by utilities listed in Statement A	Through local systems
kwh	kwh
5,985,278,843	102,936,650
5.985.278.843	102,936,650
2,400,905,170	47,005,493
5,633,131,279	18,612,111
220,551,167	2,573,056
14,239,866,459	171,127,310
14,239,866,459	171,127,310†
860,444,721	10,990,358
15,100,311,180	182,117,668
198,056,445	
195,371,792	
*14,706,882,943†	*182,117,668
15,100,311,180	182,117,668
	utilities listed in Statement A kwh 5,985,278,843

^{*} These totals are the sums of the corresponding items shown on the preceding page for each of the three operating systems. The total disposed of by the Commission 28,848,376,452 kilowatt-hours, plus transmission losses and unaccounted for amounting to 2,602,003,394 kilowatt-hours equals the 31,450,379,846 kilowatt-hours shown as generated and purchased.

ENERGY SALES
Municipal Electrical Utilities during 1958

In rural areas	To direct industrial customers	To inter- connected systems for resale	Total
kwh	kwh	kwh	kwh
931,982,764 55,296,983			6,088,215,493 931,982,764 55,296,983
987,279,747			7,075,495,240
260,338,850			2,708,249,513
278,005,882	8,117,897,235 198,253,561		14,047,646,507 198,253,561
743,639,744			743,639,744
9,365,308			232,489,531
2,278,629,531	8,316,150,796		25,005,774,096
		422,991,041 2,737,537,938	422,991,041 2,737,537,938
2,278,629,531†	8,316,150,796†	3,160,528,979†	28,166,303,075
204,066,535			1,075,501,614
2,482,696,066	8,316,150,796	3,160,528,979	29,241,804,689
			198,056,445
			195,371,792
*2,482,696,066	*8,316,150,796	*3,160,528,979	*28,848,376,452
2,482,696,066	8,316,150,796	3,160,528,979	29,241,804,689

[†] The sum of the five totals so marked, 28,633,319,559 kwh, represents the total sales, wholesale and retail, by the Commission.

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES

Municipality	of f	ate first very	Frequency December 1958	Peak load December 1958	Energy supplied during 1958	Increase or decrease in energy consumption 1958 over 1957
Southern Ontario System			cycles	kw	'000 kwh	per cent
Acton	Jan.	1913	60	3,676.7	15,096	5.9
Ailsa Craig	Jan. Jan.	1916 1952	60	287.1 5,284.6	974 $24,719$	3.3 9.5
AjaxAlexandria	Jan.	1921	60	1,477.2	6,350	10.5
Alfred	June	1952	60	348.3	1,059	8.0
Alliston	June	1918	60	1,657.0	7,934	12.0
Almonte	Feb. Apr.	1945 1922	60	1,543.5 268.2	4,939 828	7.0
AlvinstonAmherstburg	Feb.	1919	60	3,091.4	15,625	5.5
Ancaster Twp	Jan.	1914	60	2,239.2	8,820	9.3
Apple Hill	Apr.	1921	60	100.3	350	13.7
Arkona	Dec.	1926	60	290.1	1,094	18.3
Arnprior	June Dec.	1929 1916	60	3,835.9 693.3	$16,767 \\ 2,642$	3.7 5.6
Athens	Jan.	1929	60	419.9	1,513	8.7
Aurora	Dec.	1920	60	3,737.1	16,517	9.2
Aylmer	Mar.	1918	60	4,255.5	16,822	19.3
Ayr	Jan. May	1915 1912	60	697.5 849.6	2,394 2,835	10.8 40.5
Baden	Apr.	1929	60	302.3	1,780	8.1
Bancroft	Mar.	1950	60	1,291.0	4,853	92.7
Barrie	Apr.	1913	60	14,918.0	72,261	12.2
Barry's Bay	Jan. Nov.	1950 1931	60	319.3 314.9	1,176 1,141	12.1
Beachville	Aug.	1912	60	2,457.6	14,688	35.4
Beamsville	Jan.	1930	60	1,524.0	6,576	5.5
Beaverton	Nov.	1914	60	1,057.5	4,172	9.4
BeetonBelle River	Aug. Dec.	1918 1922	60	443.5 591.4	1,649 2,654	11.2 7.3
Belleville	Mar.	1916	60	16,842.6	81,413	4.5
Blenheim	Nov.	1915	60	1,535.2	5,473	2.7
Bloomfield	Apr.	1919	60	417.5	1,595	9.5
BlythBobcaygeon	July July	1924 1946	60	559.5 637.4	$2,448 \\ 2,740$	13.6 12.9
Bolton	Feb.	1915	60	1,041.4	3,656	18.1
Bothwell	Sep.	1915	60	441.6	1,261	0.9
Bowmanville	Mar.	1916	60	5,832.0	25,022	2.4
Bracebridge	Oct.	1955 1918	60	43.9 1,642.0	30 6,785	92.1 11.6
Braeside	June	1929	60	336.3	1,239	23.6
Brampton	Nov.	1911	60	10,884.8	41,587	5.7
Brantford Two	Feb.	1914	60	42,456.5	197,064	5.0
Brantford Twp Brechin	Oct. Jan.	1915 1915	60	4,520.5 125.5	20,367 474	11.0 4.7
Bridgeport	Mar.		60	795.0	2,907	5.5

[†] Local system

TO MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

Carron Ca	1		ı	1	1
Municipality	Date of first delivery	Frequency December 1958	Peak load December 1958	Energy supplied during 1958	Increase or decrease in energy consumption 1958 over 1957
SOUTHERN ONTARIO SYSTEM—Continued		cycles	kw	'000 kwh	per cent
Brigden. Brighton. Brockville. Bronte. Brussels.	Jan. 191 Mar. 191 Apr. 191 Jan. 193 July 192	6 60 60 60 60	232.0 1,276.0 14,490.0 992.6 594.2	832 5,588 68,546 4,030 2,274	11.1 5.9 10.0 10.1 10.3
Burford Burgessville Burk's Falls Burlington Caledonia	June 191 Nov. 191 Jan. 195 Jan. 193 Oct. 191	60 60 60 60	787.8 187.9 452.2 27,394.9 997.0	2,792 570 1,643 46,567 4,222	9.5 12.6 7.5 *63.7 6.8
Campbellville	Jan. 192 Nov. 191 July 193 May 191 Dec. 195	60 60 60	159.6 612.5 940.2 2,987.0 479.3	580 2,360 4,070 14,024 2,106	10.2 3.0 7.8 1.9 12.4
Cayuga. Chalk River. Chatham. Chatsworth Chesley.	Nov. 192- Jan. 195 Feb. 191. Dec. 191. July 1916	60 60 60	382.6 393.0 16,889.6 284.0 1,127.0	1,524 1,772 73,145 987 4,352	11.4 8.3 3.1 6.2 4.4
Chesterville	Apr. 1919 Sep. 1919 May 1929 Mar. 1919 Dec. 1939	60 60 60	1,075.9 1,118.0 385.0 2,071.9 588.2	4,998 4,530 1,478 9,231 2,146	9.7 9.6 19.5 8.6 10.1
Cobourg	Mar. 1910 Mar. 1910 Mar. 1911 Mar. 1911 May 1911	60 60 60	7,715.4 801.2 543.7 5,988.3 255.0	37,626 3,510 1,947 25,706 968	9,3 10.4 30.4 11.4 1.4
Cookstown Cottam Courtright Creemore Dashwood	May 1918 Feb. 1919 Dec. 1923 Nov. 1914 Sep. 1917	60 60 60	324.6 248.0 192.2 483.6 248.0	1,190 871 649 1,890 853	1.9 8.2 9.3 10.1 10.9
Deep River Delaware Delhi Deseronto Dorchester	Aug. 1958 Mar. 1918 May 1938 Mar. 1916 Dec. 1914	60 60 60	3,273.0 257.2 2,508.4 882.5 400.6	5,762 853 9,590 4,269 1,389	12.1 6.6 15.6 10.4
Drayton	Mar. 1918 Apr. 1915 Dec. 1914 Oct. 1917 Dec. 1915	60 60 60	384.8 1,080.5 248.9 242.6 497.4	1,177 4,785 792 859 1,853	5.4 4.3 12.2 15.8 4.0
				1 to the municipa	lity November 1

^{*} A large number of customers former'y served by rural facilities were transferred to the municipality November 1, 1958.

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES

Municipality	Date of first delivery	Frequency December 1958	Peak load December 1958	Energy supplied during 1958	Increase or decrease in energy consumption 1958 over 1957
SOUTHERN ONTARIO SYSTEM—Continued		cycles	kw	'000 kwh	per cent
Dundas Dunnville Durham Dutton East York Twp	Jan. 1911 June 1918 Dec. 1915 Sep. 1915 Dec. 1923	60 60 60 60 60	7,135.7 3,532.4 1,504.4 424.2 39,723.0	28,923 15,293 5,701 1,516 175,571	1.1 7.8 6.8 11.3 5.5
Eganville	Apr. 1952 Nov. 1913 June 1913 Apr. 1918 Nov. 1914	60 60 60 60 60	497.3 3,370.0 577.0 193.9 739.6	1,890 13,866 2,301 522 3,022	17.6 4.1 8.6 2.6 3.7
Embro Erieau Erie Beach Erin Essex	Jan. 1915 July 1924 July 1925 Jan. 1945 Feb. 1919	60 60 60 60 60	378.6 328.0 53.0 554.1 1,482.4	1,403 1,550 171 2,051 6,683	4.9 1.5 10.7 13.3 5.9
Etobicoke Twp. Exeter. Fergus. Finch. Flesherton.	Aug. 1917 June 1916 Nov. 1914 Feb. 1928 Dec. 1915	60 60 60 60 60	105,563.5 1,981.4 3,364.0 254.6 349.0	498,882 8,093 12,792 895 1,161	14.0 5.0 8.2 11.2 3.7
Fonthill. Forest. Forest Hill. Frankford. Galt.		60 60 60 60 60	1,275.8 1,288.0 13,521.0 674.0 21,265.9	4,897 6,223 65,040 2,492 89,434	10.4 5.4 3.2 9.3 3.4
Georgetown Glencoe Goderich Grand Bend Grand Valley	Aug. 1920 Feb. 1914 July 1954	60 60 60 60 60	6,680.0 576.5 4,704.0 511.8 488.6	30,048 2,139 20,606 2,672 1,543	11.0 12.2 14.3 20.1 10.1
Granton Gravenhurst. Grimsby Guelph Hagersville	Nov. 1915 Jan. 1930 Dec. 1910	60 60 60 60 60	111.3 2,519.0 2,759.5 29,917.5 1,924.2	391 11,802 12,248 135,036 6,629	2.3 3.5 7.5 7.8 2.3
Hamilton Hanover Harriston Harrow Hastings	Sep. 1916 July 1916 Feb. 1919	25 & 60 60 60 60 60	294,041.0 3,529.5 1,203.5 1,324.2 448.7	1,521,389 13,818 5,359 5,302 1,686	0.9 8.3 6.8 10.2 3.9
Havelock	June 1952 Jan. 1917 Apr. 1930	60 60 60 60 60	526.2 2,745.9 717.4 119.3 4,868.0	1,905 12,237 3,139 451 20,918	9.2 6.2 10.6 11.5 11.6

[†] Local system

TO MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

rgy nption over	Increase decrease energy consumpt 1958 ov 1957	Energy supplied during 1958	Peak load December 1958	Fre- quency December 1958	rst	Da of fi deliv	Municipality
cent	per cer	'000 kwh	kw	cycles			Southern Ontario System—Continued
0.2 6.1 3.0	0.1 10.2 6.1 3.0 2.4	573 382 12,914 22,180 3,280	234.9 110.9 2,477.4 5,237.2 812.6	60 60 60 60 60	1916 1916 1916 1911 1940	Dec. May Sep. May Feb.	Highgate
1.1 7.6 7.1	9.2 11.1 7.6 7.1 13.0	1,430 6,122 9,180 188,753 7,810	372.2 1,442.2 1,917.2 39,655.9 2,138.0	60 60 60 60 60	1924 1921 1921 1917 1919	Feb. Dec. Mar. Dec. Feb.	Jarvis Kemptville Kincardine Kingston Kingsville
7.7 9.4 5.2	10.8 7.7 9.4 5.2 3.3	295 292,448 4,987 3,136 1,207	86.1 60,896.0 1,249.0 934.9 308.3	60 60 60 60 60	1920 1911 1920 1915 1921	June Jan. Aug. Apr. Sep.	Kirkfield Kitchener Lakefield Lambeth Lanark
7.5 3.5 4.1	13.9 7.5 13.5 4.1 6.8	1,050 5,100 26,300 37,214 12,161	265.5 1,168.4 5,738.6 7,714.4 2,930.0	60 60 60 60 60	1921 1925 1919 1916 1916	May Nov. Feb. Mar. June	LancasterLa SalleLeamingtonLindsayListowel
5.0 4.9	4.9 14.7	349,340 6,222 30,967 1,242 2,249	65,096.3 1,826.5 7,188.9 299.8 592.4	60 60 60 60 60	1911 1917 1931 1952 1915	Jan. Sep. Jan. June Feb.	London
	3.8	2,539 1,070 3,521 295 2,432	653.4 310.8 888.0 76.8 665.4	60 60 60 60 60	1921 1915 1916 1951 1916	Jan. Nov. Mar. July Mar.	Lucknow
2.2 8.1 0.4	18.5 12.2 8.1 10.4 10.5	9,713 3,071 517 1,553 11,334	2,783.0 775.0 156.2 450.7 2,427.0	60 60 60 60 60	1920 1921 1921 1921 1924	Apr. Jan. May Feb. Jan.	Markham Marmora Martintown Maxville Meaford
6.6 4.0 0.5 6.4 8.6	4.0 0.5 16.4	1,091 1,795 8 6,423 32,131 1,790	309.0 417.8 16,866.6 6,974.9 549.0	60 60 60 60 60	1922 1950 1920 1911 1930	Dec. July Nov. July Apr.	Merlin Merrickville Merritton Midland Mildmay
8.7 8.2 2.9 6.8 1.3	8.2 2.9	1,626 19,233 2,981 38,604 7,628	416.0 4,271.0 817.0 8,292.4 1,686.8	60 60 60 60 60	1916 1913 1916 1912 1911	Mar. Apr. June May Sep.	Millbrook Milton Milverton Mimico Mitchell
37346 33446 31835 82800 0400	133	3,136 1,207 1,050 5,100 26,300 37,214 12,161 349,340 6,222 30,967 1,242 2,249 2,539 1,070 3,521 295 2,432 9,713 3,071 5,17 1,553 11,334 1,091 1,795 86,423 32,131 1,790 1,626 19,233 2,981 38,604	934.9 308.3 265.5 1,168.4 5,738.6 7,714.4 2,930.0 65,096.3 1,826.5 7,188.9 299.8 592.4 653.4 310.8 888.0 76.8 665.4 2,783.0 775.0 156.2 450.7 2,427.0 309.0 417.8 16,866.6 6,974.9 549.0 416.0 4,271.0 817.0 8,292.4	60 60 60 60 60 60 60 60 60 60 60 60 60 6	1915 1921 1921 1925 1919 1916 1916 1911 1917 1935 1915 1915 1916 1921 1921 1921 1921 1922 1950 1922 1911 1923 1911 1924	Apr. Sep. May Nov. Feb. Mar. June Jan. Sep. Jan. June Feb. Jan. Nov. Mar. July Mar. Apr. July Nov. July Apr. July Apr. July Apr. July Apr. June	Lambeth Lanark Lancaster La Salle Leamington Lindsay Listowel London London Twp Long Branch L'Orignal Lucan Lucknow Lynden Madoc Magnetawan Markdale Markham Marmora Martintown Maxville Meaford Merlin Merrickville Merritton Midland Millbrook Millbrook Millverton Millverton Mimico

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES

	Date of first delivery		Fre- quency	Peak load	Energy supplied	Increase or decrease in energy consumption
Municipality			December 1958	December 1958	during 1958	1958 over 1957
SOUTHERN ONTARIO SYSTEM—Continued			cycles	kw	'000 kwh	per cent
Moorefield	Mar.	1918	60	189.8	693	4.1
Morrisburg	June Mar.	1938 1915	60	1,375.1 331.1	5,687 1,304	0.3
Mount Forest	Dec.	1915	60	1,782.0	6,739	7.3
Napanee	Mar.	1916	60	3,300.9	14,897	4.2
Neustadt Newboro	Dec. Dec.	1918 1948	60 60	258.4 90.5	914 330	0.1
Newburgh	Mar.	1916	60	245.0	968	13.2 14.4
Newbury	Mar.	1921	60	102.3	399	10.8
Newcastle	Mar.	1916	60	826.4	3,483	4.5
New Hamburg	Mar.	1911	60	1,223.8	5,319	5.8
Newmarket New Toronto	Dec. Feb.	1920 1914	60	5,769.4 27,338.3	25,840 127,023	10.8 38.8
Niagara	Aug.	1919	60	1,775.5	8,515	0.1
Niagara Falls	Dec.	1915	60	16,971.4	83,601	0.6
North York Twp	Nov.	1923	60	152,627.8	663,496	12.6
Norwich	May Feb.	1912 1921	60	1,123.0 565.2	4,068 2,233	3.0
Oakville	Jan.	1930	60	9,745.3	41,736	7.6 2.4
Oil Springs	Feb.	1918	60	258.1	1,188	3.1
Omemee	Jan.	1918	60	437.6	1,608	2.9
Orangeville	July	1916 1954	60 60	3,194.1	12,012	9.6
OrilliaOrono	Jan. Mar.	1934	60	3,712.6 461.9	15,331 1,687	20.9
Oshawa	Mar.	1916	60	60,367.6	289,755	9.1
Ottawa	Jan.	1914	60	162,325.4	663,041	11.1
OttervilleOwen Sound	Feb. Dec.	1916 1915	60	380.0 11,186.9	1,456 51,332	7.3
Paisley	Sep.	1923	60	446.3	1,735	1.4
Palmerston	July	1916	60	1,212.6	5,005	3.7
Paris	Feb.	1914	60	3,256.8	14,675	1.9
ParkhillParry Sound	May Aug.	1920 1946	60	746.3 1,673.6	2,904 9,064	9.2 42.3
Penetanguishene	July	1911	60	2,400.5	11,777	15.0
Perth	Feb.	1919	60	3,546.5	15,165	8.0
Peterborough	Mar.	1913	60	37,792.6	190,345	7.3
Petrolia	May July	1916 1958	60	1,537.6 857.5	7,147 1,777	4.3
Picton	Apr.	1919	60	3,726.5	16,379	7.9
Plattsville	Dec.	1914	60	649.2	2,456	31.3
Point Edward	Nov.	1916	60	3,997.3	12,836	4.2
†Port Carling	Aug. Apr.	1955 1929	60	218.4 317.0	872 2,038	6.8 23.4
Port Colborne	Mar.	1920	60	6,497.6	27,008	2.5
Port Credit	Aug.	1912	60	9,754.0	61,192	62.6

[†] Local system

TO MUNICIPALIELECTRICAL UTILITIES AND LOCAL SYSTEMS

. Municipality	Date of first delivery	Frequency December 1958	Peak load December 1958	Energy supplied during 1958	Increase or decrease in energy consumption 1958 over 1957
Southern Ontario System—Continued		cycles	kw	'000 kwh	per cent
Port Dalhousie Port Dover Port Elgin Port Hope Port McNicoll.	Nov. 1912 Dec. 1921 Apr. 1930 Mar. 1916 Jan. 1915	60 60 60 60 60	1,580.6 1,854.0 1,038.6 7,348.1 1,358.0	8,369 8,729 5,071 36,765 3,113	3.7 6.2 6.2 4.9 11.3
Port Perry	Sep. 1922 Nov. 1926 Apr. 1912 Dec. 1913 Jan. 1911	60 60 60 60 60	1,234.4 256.7 1,008.9 3,460.1 8,639.0	4,999 1,032 5,089 14,852 38,089	11.3 9.1 4.5 10.3 7.9
Priceville	Mar. 1921 Jan. 1915 Mar. 1921 Dec. 1944 Aug. 1928	60 60 60 60 60	48.8 247.2 300.2 3,338.3 508.0	158 946 1,472 12,320 1,819	4.7 9.8 3.4 5.6 23.0
Richmond Hill	June 1925 Dec. 1915 Jan. 1921 Nov. 1922 Apr. 1954	60 60 60 60 60	8,611.1 1,255.0 279.0 6,128.5 961.7	32,376 5,026 1,092 23,022 3,380	25.0 5.5 2.5 2.9 14.0
Rockwood. Rodney. Rosseau. Russell. St. Catharines.	July 1931 Feb. 1926	60 60 60 60 60	432.4 467.4 74.3 300.1 42,009.3	1,639 1,744 314 1,061 203,551	7.8 4.4 7.3 14.1 3.0
St. Clair Beach. St. George. St. Jacobs. St. Mary's. St. Thomas.	Sep. 1915 Sep. 1917 May 1911	60 60 60 60 60	607.8 455.6 445.0 10,120.0 14,627.2	2,268 1,787 1,677 51,544 70,370	3.4 5.3 2.6 *280.2 5.1
Sandwich East Twp Sandwich West Twp Sarnia Scarborough Twp Seaforth	Mar. 1956 Dec. 1916 Aug. 1918	60 60 60 60 60	5,945.3 9,605.3 54,213.3 126,244.0 1,631.0	25,435 38,511 280,087 531,515 6,687	1.2 13.2 27.5 13.0 6.7
Shelburne	Apr. 1915 Sep. 1918 Jan. 1930	60 60 60 60 60	827.8 7,824.0 6,942.6 532.0 927.8	3,202 33,552 29,346 1,880 4,936	1.0 25.5 4.7 1.2 8.7
Springfield	Nov. 1916 Oct. 1913 Mar. 1916	60 60 60 60 60	237.6 17,204.6 952.8 872.4 3,556.5	864 72,399 4,015 3,288 15,428	6.7 6.0 12.5 6.0 11.8

^{*} An industrial customer formerly served by the Commission was taken over by the municipality in the month of May 1958.

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES

Municipality	Date of first delivery	Frequency December 1958	Peak load December 1958	Energy supplied during 1958	Increase or decrease in energy consumption 1958 over 1957
Southern Ontario System—Continued		cycles	kw	'000 kwh	per cent
Stouffville	Sep. 1923	60	1,871.0	6,900	10.8
Stratford	Jan. 1911	60	14,666.1	72,162	2.7
Strathroy	Dec. 1914	60	3,416.3	15,789	8.5
Streetsville	Dec. 1934	60	2,976.8	11,553	12.6
Sunderland	Nov. 1914	60	400.0	1,454	16.0
Sundridge. Sutton. Swansea Tara. Tavistock.	June 1952	60	298.3	1,195	11.5
	Aug. 1923	60	890.5	4,418	13.6
	Oct. 1937	60	5,830.1	29,103	3.6
	Feb. 1918	60	341.2	1,268	28.2
	Nov. 1916	60	801.0	3,458	3.4
Tecumseh	Nov. 1922	60	1,308.0	5,413	6.2
	Dec. 1920	60	585.2	2,507	16.1
	Feb. 1914	60	579.0	2,198	13.9
	Oct. 1915	60	629.3	2,374	7.1
	May 1922	60	388.6	1,600	9.7
Thornbury. Thorndale. Thornton. Thorold. Tilbury.	Sep. 1944	60	563.2	2,309	6.6
	Mar. 1914	60	232.0	799	4.5
	Nov. 1918	60	138.6	425	9.9
	Jan. 1921	60	10,378.9	60,381	2.3
	Apr. 1915	60	1,139.0	4,765	12.7
Tillsonburg Toronto Toronto Twp Tottenham Trafalgar Twp	Aug. 1911	60	5,161.6	19,286	6.9
	June 1911	25 & 60	569,099.0	3,144,648	3.0
	Aug. 1913	60	50,322.6	288,512	16.8
	Oct. 1918	60	418.9	1,574	8.2
	Dec. 1923	60	17,890.9	57,674	62.7
Trenton	Mar. 1916	60	15,313.6	81,181	4.8
	Mar. 1916	60	1,009.6	4,123	8.5
	Sep. 1922	60	1,463.8	6,238	10.5
	June 1952	60	616.6	1,996	11.3
	July 1914	60	298.6	1,218	11.3
Walkerton	Apr. 1930	60	2,504.6	9,487	1.4
Wallaceburg	Feb. 1915	60	7,939.1	42,161	8.4
Wardsville	June 1921	60	176.9	619	21.4
Warkworth	Oct. 1923	60	219.6	857	7.5
Wasaga Beach	Jan. 1953	60	231.0	2,181	6.0
Waterdown	Nov. 1911	60	1,152.2	4,346	4.8
	Apr. 1915	60	1,021.4	3,688	9.7
	Dec. 1910	60	14,340.5	68,183	5.1
	Sep. 1917	60	1,095.2	4,112	14.0
	Dec. 1914	60	273.4	1,184	11.6
Welland. Wellesley Wellington West Lorne. Weston	Sep. 1917	60	13,180.5	61,366	4.3
	Nov. 1916	60	418.5	1,417	5.5
	Apr. 1919	60	553.3	2,279	1.6
	Jan. 1917	60	891.6	3,650	6.9
	Aug. 1911	60	9,123.1	41,475	4.1

TO MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

· Municipality	Date of first delivery	Frequency December 1958	Peak load December 1958	Energy supplied during 1958	Increase or decrease in energy consumption 1958 over 1957
SOUTHERN ONTARIO SYSTEM—Concluded		cycles	kw	'000 kwh	per cent
Westport	Nov. 1931 Feb. 1924 Mar. 1916 Apr. 1930 Apr. 1915	60 60 60 60 60	379.2 771.3 10,886.7 1,254.8 226.8	1,411 3,127 46,019 5,322 873	12.5 10.3 15.1 9.5 7.0
Winchester	Jan. 1914 June 1930 Oct. 1914 Dec. 1920 Dec. 1914	60 60 60 60 60	1,005.8 48.4 78,946.4 1,879.6 1,843.9	4,650 451 364,853 9,190 9,225	8.7 7.0 3.3 8.7 8.5
Woodstock	Jan. 1911 Nov. 1914 Nov. 1916 Jan. 1913 Sep. 1917	60 60 60 60 60	16,797.5 210.1 381.8 63,130.0 378.8	84,450 758 1,318 313,651 1,322	6.0 8.0 4.8 5.3 5.2
Northern Ontario Properties					
Atikokan Twp †Beardmore. †Blind River. Cache Bay. Capreol.	Nov. 1954 Dec. 1950	60 60 60 60 60	3,442.4 420.6 1,925.6 247.2 1,612.5	17,367 1,802 8,774 965 7,109	19.5 13.8 15.7 27.5 6.9
Chapleau Twp †Cobalt Cochrane Coniston Dryden	Jan. 1945 Dec. 1952 Sep. 1956	60 60 60 60 60	405.9 1,054.0 2,507.5 901.5 2,501.0	986 4,398 12,640 3,614 13,097	47.8 2.6 10.9 6.8 12.3
†Elk Lake Townsite †Englehart	Jan. 1945 Oct. 1926 Feb. 1937	60 60 60 60 60	353.2 977.7 36,295.0 1,385.3 226.1	1,149 3,869 194,264 6,042 653	13.8 12.9 4.8 11.9 43.2
†Haileybury	Apr. 1952 Feb. 1955 Oct. 1939	60 60 60 60 60	1,596.9 1,125.7 550.8 197.7 145.1	6,715 5,087 2,914 747 947	11.8 23.9 10.3 15.3 11.9
†Jellicoe Townsite Kapuskasing. †Kearns Townsite †King Kirkland Townsit †Kirkland Lake	Aug. 1953 Dec. 1938	60 60 60 60 60	51.7 3,770.6 299.5 226.0 6,980.8	248 15,699 1,052 497 34,500	27.4 12.5 9.2 50.3 18.3

[†] Local system

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES TO MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

Municipality	Date of first delivery	Frequency December 1958	Peak load December 1958	Energy supplied during 1958	Increase or decrease in energy consumption 1958 over 1957
Northern Ontario Properties—Concluded		cycles	kw	'000 kwh	per cent
Larder Lake Twp Latchford Massey. †Matachewan Twp †Matheson	Mar. 1949	60	857.0	3,584	9.5
	Apr. 1950	60	183.9	527	21.8
	Dec. 1952	60	412.0	1,526	30.8
	Apr. 1935	60	255.8	1,132	0.2
	Dec. 1935	60	576.0	2,496	7.5
†Mattawa	Jan. 1953	60	1,305.1	5,913	10.1
McGarry.	Mar. 1949	60	975.0	3,886	7.0
†New Liskeard	Jan. 1945	60	3,260.2	15,160	8.7
Nipigon Twp.	Jan. 1925	60	1,637.2	7,552	26.2
North Bay.	Mar. 1916	60	15,240.0	70,226	9.5
†Pickle Lake Landing Townsite Port Arthur †Powassan Rainy River †Red Lake Townsite	Aug. 1952 Dec. 1910 Mar. 1916 Jan. 1958 June 1938	60 60 60 60 60	92.2 41,399.3 578.6 502.6 1,312.5	364 186,122 2,173 1,256 5,420	7.3 5.7 11.2
Red RockSchreiber TwpSioux Lookouttps://doi.org/10.1001/1	Feb. 1948	60	849.3	3,899	10.9
	Nov. 1948	60	1,198.6	5,302	13.5
	Sep. 1939	60	1,559.1	8,022	5.4
Townsite	Jan. 1945	60	2,415.0	9,102	9.5
	Apr. 1951	60	2,323.8	9,450	16.9
Sudbury Terrace Bay Thessalon †Thornloe †Timmins	Feb. 1930	60	27,484.5	135,030	4.7
	Jan. 1948	60	1,337.7	6,939	5.4
	May 1956	60	672.6	2,995	12.3
	Jan. 1945	60	37.7	179	16.7
	Jan. 1945	60	14,846.1	60,805	16.8
Webbwood West Ferris Twp	Dec. 1952 Apr. 1954 Apr. 1958	60 60 60	160.4 3,008.8 343.8	582 12,653 799	29.2 19.2

[†] Local system

APPENDIX II—FINANCIAL

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FIXED

Statement Showing Changes During

			In
-			Changes
Property	Balance January 1, 1958	Placed in service	Equipment relocated and reclassified
	\$	\$	\$
Power System Hydro-Electric Generating Stations Niagara River Sir Adam Beck-Niagara No. 1	83,864,139	28,706	1,426
Sir Adam Beck-Niagara No. 2 Ontario Power Toronto Power	281,910,520 21,804,219 11,452,957	29,604,134 103,423 41,928	17,086
Welland Canal DeCew FallsSt. Lawrence River St. Lawrence Power Project (see	27,558,723	206,071	350
note)		133,015,867	1,783,441
Des JoachimsOtto HoldenChenaux	73,200,089 57,718,694 29,294,601	2,778 177,964 58,694	88,816
Chats FallsOgoki Diversion	9,168,905 5,044,689	100,819 6,705	
Madawaska River Stewartville Barrett Chute Other properties	12,418,527 4,897,493 21,194,816	939 15,197 757,552	35,542 334,644
	639,528,372	164,120,777	1,978,417
THERMAL-ELECTRIC GENERATING			,
STATIONS J. Clark Keith—Windsor Richard L. Hearn—Toronto	46,270,370 47,769,026	84,221 6,958	100,000
Lakeview—TorontoOther properties	332,621	86,054	2,872
	94,372,017	177,233	197,128
Total generating stations	733,900,389	164,298,010	1,781,289
Transformer Stations 230-kv Other—Niagara Division —Georgian Bay Division —Eastern Ontario Division	75,907,732 97,453,432 7,672,089 21,286,661	4,004,047 9,670,145 124,444 1,611,842	4,101,480 1,796,374 40,910 208,130
Total transformer stations	202,319,914	15,410,478	2,056,066
Transmission Lines 230-kv Other—Niagara Division —Georgian Bay Division —Eastern Ontario Division	83,848,914 60,014,743 7,998,044 24,845,354	10,106,984 2,006,358 410,428 1,272,835	29,371 72,216 83,288
Total transmission lines		13,796,605	40,443

Note: The cost of the St. Lawrence Power Project under construction at December 31, 1958,

SYSTEM

ASSETS

Year 1958 and Balances at December 31, 1958

vice				
ing year				
		77. 4	Total	
Sales	Balance	Under construction	fixed	E 1'4
and	December 31,	December 31,	assets December 31,	Expenditure during
retirements	1958	1958	1958	1958
4				
\$	\$	\$	\$	\$.
15,381	83,876,038	185,126	84,061,164	30,919
58,646	311,473,094	697,237	312,170,331	7,560,349
18,250	21,889,392		21,889,392	101,752
11,456	11,483,429	35,711	11,519,140	37,495
322,844	27,441,600	1,148	27,442,748	56,688
	131,232,426	128,461,891	259,694,317	50,812,534
17 502	72 195 264	54,508	72 220 972	42 220
17,503 3,377	73,185,364 57,982,097	6,977	73,239,872 57,989,074	42,228 131,784
3,311	29,353,295	6,327	29,359,622	48,385
5,131	9,264,593	16,381	9,280,974	114,773
	5,051,394		5,051,394	6,705
4,183	12,450,825	1.006	12,450,825	4,185
28,294 18,058	4,884,396 21,599,666	1,296 128,551	4,885,692 21,728,217	1,015 824,780
503,123	801,167,609	129,595,153	930,762,762	59,763,192
275	46,454,316	1,265	46,455,581	29,363
2,350	47,873,634	42,912,833	90,786,467	28,487,198
		6,528,501	6,528,501	6,268,422
	415,803	299,051	714,854	230,349
2,625	94,743,753	49,741,650	144,485,403	35,015,332
505,748	895,911,362	179,336,803	1,075,248,165	94,778,524
120,362	83,892,897	2,431,848	86,324,745	5,169,743
3,011,754	102,315,449	1,769,277	104,084,726	8,377,190
278,273	7,477,350	27,452	7,504,802	120,767
672,745	22,017,628	775,339	22,792,967	1,936,022
4,083,134	215,703,324	5,003,916	220,707,240	15,603,722
220,932	93,734,966	2,853,836	96,588,802	10,410,187
745,047	61,305,425	2,581,465	63,886,890	3,209,975
228,957	8,107,299	289,044	8,396,343	332,886
298,659	25,902,818	575,941	26,478,759	1,368,485
1,493,595	189,050,508	6,300,286	195,350,794	15,321,533

^{\$128,461,891,} includes generation, transformation, transmission, and rural distribution facilities.

FIXED

Statement Showing Changes During

			,
			In
			Changes
Property	Balance January 1, 1958	Placed in service	Equipment relocated and reclassified
Power System—(continued)	\$	\$.	\$
Local Systems Georgian Bay Division	248,115	135,930	8,381
Communications	12,116,908	184,586	256,506
Total power system	1,125,292,381	193,825,609	67,095
Administrative and Service Buildings and Equipment Buildings	20,855,769 5,596,857	1,553,715 1,102,796	26,750
Total administrative and service buildings and equipment	26,452,626	2,656,511	26,750
Rural Power District	190,033,414	16,402,130	40,345
Total fixed assets,	1,341,778,421	212,884,250	
Changes in Assets under Construction	on During 1958	1	
Under construction at January 1, 1958 Expenditures during 1958			
			\$ 405,543,178
Less—Placed in service during 1958			212,884,250
Under construction at December 31, 195	8		\$ 192,658,928

SYSTEM

ASSETS

Year 1958 and Balances at December 31, 1958

service				
during year				
Sales and retirements	Balance December 31, 1958	Under construction December 31, 1958	Total fixed assets December 31, 1958	Expenditure during 1958
\$	\$	\$	\$	\$
26,309	366,117	4,122	370,239	101,744
608,354	11,436,634	383,729	11,820,363	403,821
6,717,140	1,312,467,945	191,028,856	1,503,496,801	126,209,344
49,003 255,403	22,333,731 6,444,250	196,515	22,530,246 6,444,250	828,981 1,102,796
304,406	28,777,981	196,515	28,974,496	1,931,777
5,156,164	201,239,035	1,433,557	202,672,592	16,207,826
12,177,710	1,542,484,961	192,658,928	1,735,143,889	144,348,947

Summary of Sales and Retirements During 1958

Charged to operations\$	57,976
Charged to frequency standardization	77,646
Charged to reserve for stabilization of rates and contingencies	266,718
Charged to accumulated depreciation	6,657,116
Proceeds from sales	5,118,254

\$ 12,177,710

ACCUMULATED DEPRECIATION

December 31, 1958

	Power System	Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1958 Add: Interest at 3% per annum on accumulated deprecia-	\$ 130,058,494	\$ 36,017,720	\$ 5,101,740	\$ 171,177,954
tion required on plant not fully depreciated Provision in the year	3,297,340	1,152,954	53,044	4,503,338
—direct (see note)	10,667,517 3,346	7,607,127	789,453	18,274,644 792,799
moval costs of assets retired	391,314	437,946	10,895	57,527
equipment Other adjustments	30,088 47,599	30,109 41,633	42,279	48,245
Deduct:	143,652,894	45,204,223	5,997,390	194,854,507
Cost of fixed assets retired less proceeds from sales	3,515,813	3,079,085	62,218	6,657,116
Balances at December 31, 1958	140,137,081	42,125,138	5,935,172	188,197,391

Note—The provision for the year includes a special appropriation of \$2,100,000 required to reflect, as at January 1, 1958, a reduction in the life expectancy of Rural Power District distribution and other facilities indicated by a study of retirement experience completed during the year. The regular provision for 1958 is based on revised rates determined from this study.

SYSTEM

FREQUENCY STANDARDIZATION ACCOUNT December 31, 1958

Balance at debit at January 1, 1958. \$ 180,197,985

Expenditures for frequency standardization work completed during year. \$ 20,605,325

Less industrial customers' contributions. \$ 18,983,935

Completed during year. \$ 20,605,325

1,621,390

\$ 18,983,935

7,220,345

11,763,590

Balance at debit at December 31, 1958. \$ 191,961,575

STATEMENTS OF RESERVES,

Stabilization of Rates

	Power System			
	General	Stream-flow variation	Maximum power cost	
Balances at January 1, 1958	\$ 91,004,366	\$ 12,700,000	\$ 461,032	
Add: Interest for year on reserve balances (Note). Provision in the year Excess of revenue over costs of supplying power to Rural Power District	3,329,243	466,608 5,363,660	18,441	
customers Profit on redemption of funded debt and sale of investments, net	376,671		• • • • • • • • • •	
	94,710,280	18,530,268	479,473	
Deduct: Expenditures during year		•••••	18,441	
operating area to reflect a physical inventory taken during the year			• • • • • • • • •	
Balances at December 31, 1958	94,710,280	18,530,268	461,032	

Note: Interest for the year on the general, stream-flow variation, and nuclear research reserve balances was credited at 3.57% for the period January to August and 3.91% for the period September to December, 1958, which approximated the actual earnings on the investments held for these reserves. Interest on the other reserve balances was at 4%.

Exchange Discount and Premium on Funded Debt

	Discount	Premium
Exchange discount and premium on funded debt issued in United	\$	\$
States funds: Balances at January 1, 1958 Less discount and premium on bonds redeemed during 1958.	4,067,570 207,694	4,803,858 57,557
Balances at December 31, 1958	3,859,876	4,746,301

SYSTEM

DECEMBER 31, 1958

and Contingencies

Rural Pow	Rural Power District					
General	Rates suspense	Sub-total	Nuclear research	Total		
\$ 1,567,050	\$ 126,117	\$ 105,858,565	\$ 2,691,342	\$ 108,549,907		
57,328	5,045	3,876,665 5,363,660	150,375 2,436,293	4,027,040 7,799,953		
	267,289	267,289	*****	267,289		
	* * * * * * * * * *	376,671		376,671		
1,624,378	398,451	115,742,850	5,278,010	121,020,860		
	* * * * * * * *	,	612,243	612,243		
* * * * * * * * *		18,441		18,441		
266,718		266,718		266,718		
1,357,660	398,451	115,457,691	4,665,767	120,123,458		

Sinking Fund

	Power System and Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1958	\$ 231,612,556	\$ 2,984,349	\$ 234,596,905
Interest at 4% per annum on reserve balances Provision in the year—direct	9,264,502 13,726,613 2.047	119,374	9,383,876 13,726,613 226,353
	254,605,718	3,328,029	257,933,747
Deduct credits resulting from matured sinking funds (see note): Interest	315,604 83,082	32,087 8,447	347,691 91,529
	398,686	40,534	439,220
Balances at December 31, 1958	254,207,032	3,287,495	257,494,527

Note: The matured sinking funds at January 1, 1958 amounted to \$8,692,243.

STATEMENT OF THE ALLOCATION

	Power and supplied du (principal of cost alle	ring year I bases	Cost of			
Municipality	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)	
ActonAilsa CraigAjaxAlexandria.	kw 3,207.4 241.9 4,672.4 1,370.9	megawatt- hours 15,095.9 973.8 24,719.0 6,350.2	\$ 117,824.89 9,254.20 147,572.98 49,943.58 10,335.41	\$ 16,037.00 1,209.50	\$ 6,784.65 502.01 10,044.05 2,893.88 575.42	
Alfred	279.1 1,380.9 1,165.7 217.4 2,818.8 1,782.9	7,934.4 4,939.3 828.4 15,624.8 8,820.0	55,072.74 38,225.46 8,329.64 107,149.69 59,102.80	1,087,00 14,094.00 8,914.50	3,005.45 2,433.63 448.41 6,101.34 3,796.60	
Apple Hill	80.4 234.3 3,561.1 595.7 311.1	350.4 1,093.8 16,767.1 2,642.4 1,512.8	2,813.78 8,913.83 118,929.18 22,137.99 10,891.83	1,171.50	168.42 495.09 7,533.21 1,250.60 660.93	
Aurora Aylmer Ayr Baden Bancroft	3,001.6 3,353.9 584.5 722.2 1,150.4	16,517.5 16,822.0 2,394.0 2,834.9 4,852.8	103,530.28 107,281.18 21,160.27 21,756.29 50,709.16	15,008.00 16,769.50 2,922.50 3,611.00	6,489.93 7,155.52 1,215.39 1,494.49 2,400.41	
Barrie	246.9 255.1 2,138.5	72,261.0 1,176.2 1,141.4 14,687.7 6,576.0	410,450.46 10,478.02 8,928.72 75,629.49 43,350.53	10,692.50 6,452.00	28,086.96 523.10 536.13 4,795.53 2,759.19	
Beaverton Beeton. Belle River. Belleville Blenheim	363.7 555.2 14,893.5	4,171.5 1,648.8 2,653.6 81,413.1 5,473.4	36,551.44 14,930.35 21,099.27 451,061.43 41,341.15	2,776.00	32,170.05	
Bloomfield	522.8 578.8 741.0	1,594.9 2,448.4 2,740.0 3,655.7 1,260.8	11,612.87 19,916.86 20,910.85 28,396.13 12,385.02	2,614.00 3,705.00 1,562.50	1,105.16 1,225.27 1,577.34	
Bowmanville	31.7 1,297.2 379.2	25,022.0 30.0 6,784.8 1,238.8 41,587.0	161,195.30 1,420.48 47,128.21 11,641.10 262,805.72	43,983.00	60.05 2,783.95 770.01	

SYSTEM

ower					Annual rates on a kilowatt basis		
	Net revenue from direct customers	Total cost of power	Amounts billed (municipalities at interim rates)	Balance credited or charged	Interim	Actual	
	\$	\$	dh	d			
	1,445.11		\$ 142 727 45	\$	\$	\$	
	108.99	139,201.43	142,727.45	3,526.02	44.50	43.40	
	2,105.18	10,856.72	11,188.64	331.92	46.25	44.88	
	617.67	155,511.85	169,374.20	13,862.35	36.25	33.28	
	125.75	52,219.79	55,863.84	3,644.05	40.75	38.09	
	143.13	10,785.08	11,094.26	309.18	39.75	38.64	
	622.17	57,456.02	61,794.90	4,338.88	44.75	41.61	
	525.21	40,133.88	43,132.45	2,998.57	37.00	34.43	
	97.95	9,767.10	10,109.89	342.79	46.50	44,93	
	1,270.03	126,075.00	133,891.43	7,816.43	47.50	44.93	
	803.30	71,010.60	72,652.49	1,641.89	40.75	39.83	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,072,02	10.70	37,03	
	36.22	2,945.98	3,134.96	188.98	39.00	36.64	
	105.57	10,474.85	10,367.03	107.82	44.25	44.71	
	1,604.48	124,857.91	132,652.52	7,794.61	37.25	35.06	
	268.40	23,120,19	24,868.40	1,748.21	41.75	38.81	
	140.17	11,412.59	12,053.51	640.92	38.75	36.68	
	1,352.39	123,675.82	126.066.15	2 200 22	42.00	11.00	
	1,511.12	129,695.08	126,066.15	2,390.33	42.00	41.20	
	263.35	25,034.81	154,277.87	24,582.79	46.00	38.67	
	325.39	26,536.39	25,716.56	681.75	44.00	42.83	
	518.32	52,591.25	26,721.68 58,670.84	185.29 6,079.59	37.00 51.00	36.74 45.72	
	230.02	02,071.20	36,070.04	0,079.39	31.00	45.72	
	5,841.64	432,695.78	460,272.30	27,576.52	35.50	33.37	
	111.24	10,889.88	11,482.40	592.52	46.50	44.11	
	114.94	9,349.91	10,074.82	724.91	39.50	36.65	
	963.51	90,154.01	95,162.88	5,008.87	44.50	42.16	
	581.40	51,980.32	59,036.96	7,056.64	45.75	40,28	
	407.84	38,053.15	40,734.01	2,680.86	45,00	42.04	
	163.87	15,532.12	16,640.41	1,108.29	45.75	42.04	
	250.15	24,801.93	25,676.45	874.52	46.25	44.67	
	6,710.36	476,521.12	510,103.52	33,582.40	34.25	32,00	
	522.69	49,073.72	52,204.50	3,130.78	45.00	42.30	
	160.76	12,201.88	12,755.60	553.72	35.75	34.20	
	235.55	23,400.47	24,048.42	647.95	46.00	44.76	
	260.78	21,875.34	22,717.90	842.56	39.25	37.79	
	333,86	33,344.61	33,900.38	555.77	45.75	45.00	
	140.80	14,455.40	15,624.58	1,169;18	50.00	46.26	
	2,356.41	169,925.88	181,743.09	11,817.21	34.75	32.49	
	14.28	1,466.25	1,046.38	419.87	33.00	46.26	
	584.46	49,327.70	51,889.66	2,561.96	40.00	38.03	
	170.85	12,240.26	12,798.28	558.02	33.75	32.28	
	3,963.36	321,443.79	327,673.97	6,230.18	37.25	36.54	

STATEMENT OF THE ALLOCATION

	Power an supplied do (principa of cost all	uring year al bases	Cost o		
Municipality	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
		megawatt-			
	kw	hours	\$	\$	\$ 02.050.60
Brantford	38,819.4	197,063.9	1,173,107.63	194,097.00	82,959.69 8,374.63
Brantford Twp	3,903.6	20,366.6	131,386.30 4,689.11	19,518.00	240.75
Brechin	115.8 632.1	473.6 2.907.2	21.119.48	3,160,50	1,333.09
Bridgeport	202.9	832.0	7,474.40	1,014.50	421.96
_	1,109.9	5,587.7	39,393.01		2,369,19
Brighton	13,454.8	68,546.5	398,938.91		28,768.19
Bronte	780.2	4,030.4	27,995.35	3,901.00	1,671.45
Brussels	513.2	2,273.6	19,750.17	2,566.00	1,077.23
Burford	645.6	2,791.9	21,589.54	3,228.00	1,351.13
Burgessville	167.0	569.6	5,456.05	835.00	340.53
Burk's Falls	337.1	1,642.8	15,029.04		716.38
Burlington	9,408.9	46,567.4	300,759.13	47,044.50	20,037.09
Caledonia	823.4	4,222.4	27,621.95	4,117.00	1,762.16
Campbellville	128.2	580.0	4,595.85	641.00	269.81
Cannington	505.1	2,360.0	21,510.14		1,067.42
Cardinal	819.1	4,070.2	30,134.23		1,745.30
Carleton Place	2,675.5	14,023.7	98.557.75		5,743.71
Casselman	511.6	2,105.6	18,625.73	1.674.50	1,064.41 705.32
Cayuga	334.9	1,523.6	12,020.58	1,074.30	103.32
Chalk River	305.4	1,772.3	10,836.26		665.72
Chatham	15,152.8	73,145.4	450,774.52	75,764.00	32,160.38
Chatsworth	228.6	986.8	8,845.42		478.32 2.206.59
Chesley	1,061.0 1,024.9	4,351.9 4,997.9	37,109.77 38,747.06		2,178.23
Chesterville	1,024.9	4,221.2	00,7 17.00		
Chippawa	859.0	4,529.6	29,801.15	4,295.00	1,845.68
Clifford	316.8	1,477.6	11,847.71	1,584.00	669.34
Clinton	1,837.5	9,230.5	63,087.98	9,187.50	3,921.13 1,033.49
Cobden	493.5 7,255.2	2,145.6 37,625.7	15,471.76 260,785.37		15,551.64
Cobourg					
Colborne		3,509.6	25,587.34		1,447.03 945.14
Coldwater	451.8 5.590.1	1,947.0 25,705.5	15,832.15 203,313.52		11,789.22
Comber		968.0	9,278.43	1,218.50	504.98
Comber	269.9	1,190.4	10,990.34		566.22
2.11	200.3	870.7	6 905 22	1,001.50	419.46
Cottam		649.0	6,805.32 5,357.15	748.50	313.39
Courtright		1,889.6	16,084.26	748.30	882.93
Dashwood		853.4	8,866.22	1,122.00	
Deep River		5.762.0	35,422,67		2,362.72

SYSTEM

oower	er				rates on att basis
Net revenue		Amounts			
from		billed (municipalities	Balance credited		
direct	Total cost	at interim	or		
customers	of power	rates)	charged	Interim	Actual
\$	\$	\$	\$	\$	\$
17,490.33	1,432,673.99	1,484,843.32	52,169.33	38.25	36.91
1,758.79	157,520.14	160,048.29	2,528.15	41.00	40.35
52.17	4,877.69	4,949.04	71.35	42.75	42.12
284.80	25,328.27	26,233.89	905.62	41.50	40.07
91.42	8,819.44	9,281.17	461.73	45.75	43.47
500.07	41,262.13	44,120.19	2,858.06	39.75	37.18
6,062.15	421,644.95	447,372.10	25,727.15	33.25	31.34
351.52	33,216.28	33,548.96	332.68	43.00	42.57
231.23	23,162,17	24,250.67	1,088.50	47.25	45.13
290.88	25,877.79	27,439.06	1,561.27	42.50	40.08
75.24	6,556.34	6,930.50	374.16	41.50	39.26
151.88	15,593.54	16,936.78	1,343.24	50.25	46.26
4,239.24	363,601.48	397,527.78	33,926.30	42.25	38.64
370.99	33,130.12	33,758.74	628.62	41.00	40.24
57.76	5,448.90	5,577.42	128.52	43.50	42.50
227.58	22,349.98	23,233.45	883.47	46.00	44.25
369.05	31,510.48	32,765.34	1,254.86	40.00	38.47
1,205.46	103,096.00	108,356.41	5,260.41	40.50	38.53
230.50	19,459.64	21,231.05	1,771.41	41.50	38.04
150.89	14,249.51	14,985.29	735.78	44.75	42.55
137.60	11,364.38	11,603.95	239.57	38.00	37.21
6,827.19	551,871.71	572,017.91	20,146.20	37.75	36.42
103.00 478.04	9,220.74	9,871.16	650.42	43.18	40.34
461.78	38,838.32	41,379.98	2,541.66	39.00	36.61
401.78	40,463.51	43,558.62	3,095.11	42.50	39.48
387.03	35,554.80	35,220.71	334.09	41.00	41.39
142.74	13,958.31	14,412.87	454.56	45.50	44.06
827.90	75,368.71	78,094.11	2,725.40	42.50	41.02
222.35	16,282.90	17,026.93	744.03	34.50	32.99
3,268.88	273,068.13	291,236.05	18,167.92	40.14	37.64
304.04	26,730.33	28,680.41	1,950.08	42.50	39.61
203.56	16,573.73	18,637.79	2,064.06	41.25	36.68
2,518.66	212,584.08	229,192.07	16,607.99	41.00	38.03
109.80	10,892.11	11,391.42	499.31	46.75	44.69
121.61	11,434.95	12,219.91	784.96	45.28	42.37
90.25	8,136.03	8,363.92	227.89	41.75	40,62
67.45	6,351.59	6,549.37	197.78	43.75	42.43
189.14	16,778.05	17,735.15	957.10	42.25	39.97
101.10	10,349.86	10,603.69	253.83	47.25	46.12
495.97	37,289.42	38,802.03	1,512.61	35.25	33.87

STATEMENT OF THE ALLOCATION

	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
Municipality	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
		megawatt-			
	kw	hours	\$	\$	\$
Delaware	205.3	853.2	7,302.71	1,026.50	427.62
Delhi	1,945.0	9,590.4	69,462.30	9,725.00	4,139.93
Deseronto	836.9	4,268.8	31,291.25	4 522 50	1,789.70
Dorchester	304.7	1,388.8	10,731.48	1,523.50	641.87
Drayton	296.7	1,177.1	10,396.80	1,483.50	014./1
Duradan	989.6	4.784.7	37,091,22	4.948.00	2,100.78
Dresden	200.9	792.3	7,410.00	1,004.50	415.95
Drumbo Dublin	199.3	859.4	6,728.40	996.50	416.96
Dundalk	429.3	1.853.2	17,074.63		898.26
Dundas	5,963.8	28,923.1	175,146.20	29,819.00	12,665.53
Buildas					
Dunnville	3,099.0	15,292.8	118,313.26	15,495.00	6,596.94
Durham	1,338.1	5,701.3	47,991.44		2,795.40
Dutton	323.9	1,515.7	12,824.71	1,619.50	684.64
East York Twp	33,727.3	175,571.2	1,029,150.07	168,636.50	72,333.84
Eganville	395.2	1,889.6	13,551.29		837.71
	2 020 7	12 066 0	102 402 60	15,198.50	6,403,99
Elmira	3,039.7 488.4	13,866.0 2,300.8	103,482.68 17,829.03	13,196.30	1.033.24
Elmvale	156.6	522.2	5,767.81		318.62
Elmwood	678.8	3.021.9	26,138.61	3,394.00	1,425.70
Elora Embro	314.2	1,402.8	11,132.48	1,571.00	660.16
Emblo	011.2	1,102,0		, _,	
Erieau	337.2	1,549.8	12,914.04	1,686.00	711.09
Erie Beach	52.9	171.2	1,884.61	264.50	107.32
Erin	450.7	2,050.8	16,609.20		949.22
Essex	1,286.1	6,682.9	46,370.62	6,430.50	2,757.55
Etobicoke Twp	82,721.9	498,881.6	2,677,764.17	413,609.50	181,426.75
F	1,661.7	8,092.8	63,758.12	8,308.50	3,531.00
ExeterFergus		12.791.6	104,478.45	15,184.00	6,335.45
Finch		895.2	7,358.78	13,101.00	442.22
Flesherton		1,160.8	9,273.49		570,73
Fonthill	976.5	4,897.0	32,741.74	4,882.50	2,083.31
Forest		6,223.2	42,173.96	5,334.50	2,327.52
Forest Hill		65,040.4	362,541.40	58,550.00	25,354.23
Frankford		2,492.1	17,347.95	400 (04 50	1,137.15
Galt		89,433.7	573,443.14	100,684.50	42,281.52
Georgetown	5,597.2	30,047.5	184,745.31	27,986.00	12,057.71
Glencoe	462.4	2,139.0	18.056.95	2,312.00	975.92
Goderich		20,605.5	159,749.64	20,182.50	8,633.01
Grand Bend		2,672.0	24,027.03	3,033.00	1,272.38
Grand Valley		1,542.7	16,295.20	0,000.00	840.10
Granton		390.6	3,490.80	497.00	205.72

SYSTEM

wer		wer				Annual a kilowa	rates on att basis
		Amounts					
Net revenue		billed	Balance				
from	Total cost	(municipalities at interim	credited				
direct customers	Total cost of power	rates)	or charged	Interim	Actual		
customers	or power	rates)	charged	Interm	Actual		
\$	\$	s	\$	\$	\$		
92.50	8,664.33	8,828.97	164.64	43.00	42,20		
876.33	82,450.90	84,606.40	2,155.50	43.50	42.39		
377.07	32,703.88	34,729.29	2,025.41	41.50	39.08		
137.28	12,759.57	13,558.41	798.84	44.50	41.88		
133.68	12,361.33	12,758.10	396.77	43.00	41.66		
445.87	43,694.13	45,523.54	1,829.41	46.00	44.15		
90.52	8,739.93	9,492.49	752.56	47.25	43.50		
89.80	8,052.06	8,271.28	219.22	41.50	40,40		
193.42	17,779.47	18,897.80	1,118.33	44.02	41.42		
2,687.03	214,943.70	219,170.88	4,227.18	36.75	36.04		
1,396.27	139,008.93	144,879.42	5,870.49	46.75	44.86		
602.89	50,183.95	54,528.60	4,344.65	40.75	37.50		
145,94	14,982.91	16,519.35	1,536.44	51.00	46.26		
15,196.05	1,254,924.36	1,290.070.50	35,146.14	38.25	37.21		
178.06	14,210.94	14,919.12	708.18	37.75	35.96		
1,369.56	123,715.61	129,187.62	5,472.01	42.50	40.70		
220.05	18,642.22	19,778.19	1,135.97	40.50	38.17		
70.56	6,015.87	6,225.83	209,96	39.75	38.42		
305.84	30,652.47	31,053.59	401.12	45.75	45.16		
141.56	13,222.08	13,744.79	522.71	43.75	42.08		
151.93	15,159.20	16,100.51	941,31	47.75	44.96		
23.83	2,232.60	2,366.17	133.57	44.75	42.20		
203.07	17,355.35	18,364.66	1,009.31	40.75	38.51		
579.46	54,979.21	57,554.85	2,575.64	44.75	42.75		
37,270.88	3,235,529.54	3,350,235.61	114,706.07	40.50	39.11		
748.69	74,848.93	76,854.79	2,005.86	46.25	45.04		
1,368.25	124,629.65	127,545.25	2,915.60	42.00	41.04		
95.47	7,705.53	8,423.68	718.15	39.75	36.36		
123.14	9,721.08	10,166.03	444.95	37.20	35.57		
439.97	39,267.58	41,743.26	2,475.68	42.75	40.21		
480.70	49,355.28	54,411.48	5,056.20	51.00	46.26		
5,276.02	441,169.61	453,762.83	12,593.22	38.75	37.67		
242.76	18,242.34	19,126.53	884,19	35.50 36,50	33.86 35.13		
9,072.81	707,336.35	734,996.87 235,082.05	27,660.52 12,814.88	42.00	39.71		
2,521.85	222,267.17	233,082.03					
208.34	21,136.53	21,964.80	828.27	47.50	45.71		
1,818.67	186,746.48	195,771.47	9,024.99	48.50	46.26		
273.31	28,059.10	30,936.61	2,877.51	51.00	46,26		
183.65	16,951.65	18,138.94	1,187.29	44.50	41.59 41.74		
44.79	4,148.73	4,201.43	52.70	42.25	41.74		

STATEMENT OF THE ALLOCATION

for the Y	ear
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	supplied d	nd energy uring year al bases llocation)	Cost		
Municipality	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- . zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
		megawatt-			
	kw	hours	\$	\$	\$
Gravenhurst	2,388.1	11,802.2	82,649.88		5,084.66
Grimsby	2,308.0	12,248.0	80,535.61	11,540.00	4,963.62
Guelph	27,233.8	135,035.8	798,096.74	136,169.00	58,011.36
Hagersville	1,711.9	6,628.7	58,279.78	8,559.50	3,537.16
Hamilton	251,524.6	1,521,389.1	7,917,943.14	1,257,623.00	551,911.00
Hanover	3,285.2	13,817.8	105,100.98		6,852.49
Harriston	1,099.9	5,359.1	38,810.07	5,499.50	2,337.35
Harrow	1,127.6	5,301.6	41,158.43	5,638.00	2,384.90
Hastings	365.0	1,686.4	12,501.93		770.24
Havelock	405.2	1,905.2	14,785.52		857.01
Hawkesbury	2,292.9	12,236.6	70,386.30		4,935.19
Hensall	680.2	3,139.2	24,983.47	3,401.00	1,435.17
Hespeler	4,576.4	20,918.3	138,964.31	22,882.00	9,643.98
Highgate	180.0	573.4	6,871.79	900.00	364.65
Holstein	90.0	382.0	3,348.93		187.93
Huntsville	2,353.2	12,914.0	89,471.71		5,085.90
Ingersoll	4,633.8	22,180.4	152,141.64	23,169.00	9,823.75
Iroquois	672.1	3,280.3	24,897.68		1,428.58
Jarvis	296.3	1,429.6	10,968.91	1,481.50	628.83
Kemptville	1,291.8	6,121.9	46,649.38		2,735.03
Kincardine	1,730.5	9,180.5	73,475.39		3,721.48
Kingston	34,139.3	188,753.3	1,033,786.90		73,866.74
Kingsville	1,559.3	7,810.4	50,911.25	7,796.50	3,326.14
Kirkfield	71.7	294.8	3,082.44		149.16
Kitchener	55,485.3	292,447.7	1,494,885.40	277,426.50	119,210.04
Lakefield	1,008.7	4,987.2	32,480.75		2,147.82
Lambeth	695.4	3,136.0	24,233.93	3,477.00	1,462.93
Lanark	265.2	- 1,207.4	9,306.31		558.58
Lancaster	212.6	1,050.1	7,638.26		452.63
La Salle	1,057.3	5,100.2	37,239.86	5,286.50	2,243.81
Leamington	4,967.5	26,300,2	172,820.06	24,837.50	10,679.60
Lindsay	6,577.9	37,213.5	227,254.80		14,282.22
Listowel	2,691.8	12,161.2	89,336.23	13,459.00	5,664.11
London	58,923.0	349,339.8	1,829,162.84	294,615.00	128,876.86
London Twp	1,404.9	6,222.0	45,521.98	7,024.50	2,948.84
Long Branch	5,957.5	30,966.6	192,342.15	29,787.50	12,774.16
L'Orignal	262.8	1,241.6	9,758.67		556.18
Lucan	484.7	2,248.8	18,920.91	2,423.50	1,023.38
Lucknow	575.5	2,539.2	23,396.99		1,207.40
Lynden	244.5	1,069.6	8,545.22	1,222.50	512.42

SYSTEM

er		ver		T		,	Annual a kilowa	
Net revenue		Amounts billed	Balance					
from		(municipalities	credited					
direct	Total cost	at interim	or					
customers	of power	rates)	charged	Interim	Actual			
s	s	s	s	\$	\$			
1,075.97	86,658.57	90,746.54	4,087.97	38.00	36.29			
1,039.88	95,999.35	106,743.07	10,743.72	46.25	41.59			
12,270.36	980,006.74	1,028,076.28	48,069.54	37.75	35.98			
771.31	69,605.13	71,042.47	1,437.34	41.50	40,66			
113,326.01	9,614,151.13	9,746,576.63	132,425.50	38.75	38.22			
1,480.17	110,473.30	116,622.83	6,149.53	35.50	33.63			
495.57	46,151.35	47,571.40	1,420.05	43.25	41.96			
508.05	48,673.28	49,898.16	1,224.88	44.25	43.17			
164.45	13,107.72	15,603.39	2,495,67	42.75	35.91			
182.57	15,459.96	17,625.49	2,165.53	43.50	38.15			
1,033.08	74,288.41	76,811.62	2,523.21	33.50	32,40			
306.47	29,513.17	29,929.91	416.74	44.00	43.39			
2,061.93	169,428.36	175,045.39	5,617.03	38.25	37.02			
81.10 40.55	8,055.34 3,496.31	8,504.24 3,757.52	448.90 261.21	47.25 41.75	44.75 38.85			
		0,101.02	201,21	71.73	30.03			
1,060.25	93,497.36	96,479.85	2,982.49	41.00	39.73			
2,087.79	183,046.60	188,826.00	5,779.40	40.75	39.50			
302.82 133.50	26,023,44	30,077.97	4,054.53	44.75	38.72			
582.03	12,945.74 48,802.38	13,555.37 52,319.59	609.63 3,517.21	45.75 40.50	43.69			
302.03	40,002.33	32,319.39	3,317.61	40.50	37.78			
779.69	76,417.18	81,767.71	5,350.53	47.25	44.16			
15,381.68	1,092,271.96	1,160,737.62	68,465.66	34.00	31.99			
702.55	61,331,34	63,931.29	2,599.95	41.00	39.33			
32.30 24,999.26	3,199.30 1,866,522.68	3,371.86 1,941,985.52	172.56 75,462,84	47.00 35.00	44.62			
454.48	34,174.09	36,314.10	2,140.01	36.00	33.88			
313.32	28,860.54	29,208.20	347.66	42.00	41.50			
119.49 95.79	9,745.40 7,995.10	10,741.28	995.88	40.50	36.75			
476.37	44,293.80	8,450.52 45,464,64	455.42 1,170.84	39.75 43.00	37.61 41.89			
2,238,14	206,099,02	213,603.23	7,504.21	43,00	41.49			
2,963.71	238,573.31	254,892.02	16,318.71	38.75	36.27			
1,212.81	107,246.53	111,035.72	3,789.19	41.25	39.84			
26,548.13	2,226,106.57	2,283,264.71	57,158.14	38.75	37.78			
632.99	54,862.33	55,843.12	980.79	39.75	39.05			
2,684.19	232,219.62	239,788.70	7,569.08	40.25	38.98			
118.41	10,196.44	10,314.92	118.48	39.25	38.80			
218.38	22,149.41	24,232.49	2,083.08	50.00	45.70			
259.30	24,345.09	26,251.59	1,906.50	45.62	42.30			
110.16	10,169.98	10,512.08	342.10	43.00	41.60			

STATEMENT OF THE ALLOCATION

			Cost		
Municipality	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
		megawatt-	*	Φ.	0
	kw	hours	\$	\$	\$
Madoc	696.4	3,521.4	26,012.19		1,487.44 144.59
Magnetawan	69.2	295.2	3,088.09		1,104.39
Markdale	522.9	2,432.0	19,943.78 71,549.15	10,088.00	4,280.62
Markham	2,017.6	9,713.1	24,175.87	10,088.00	1,302.30
Marmora	610.1	3,071.2	24,173.87		1,302.30
25	139.8	517.2	4,555.79		287.45
Martintown	380.4	1,553.1	14,487.63		790.71
Maxville	2,244.0	11,334.0	86,704.70		4,792.19
Merlin	246.2	1.091.2	8,890.24	1,231.00	516.81
Merrickville	355.7	1,795.1	12,625.36		759.53
			101 207 07	77. (06.00	33,251,08
Merritton	15,321.2	86,423.2	481,385.07	76,606.00	13,773.66
Midland	6,463.9	32,131.5	209,480.00 14,988.52		892.14
Mildmay	428.0	1,789.8	13,233.96		745.53
Millbrook	353.5	1,625.8 19,232.8	132,788.93	18,988.00	8,113.05
Milton	3,797.6	19,232.0	132,700.93	10,900.00	0,110.00
Milverton	784.9	2,980.8	28,844.10	3,924.50	1,618.34
Mimico	7,005.4	38,603.9	220,402.19	35,027.00	15,149.94
Mitchell	1,481.0	7,628.5	49,868.63	7,405.00	3,171.49
Moorefield	172.5	692.8	5,859.20	862.50	357.89
Morrisburg	1,134.7	5,686.7	41,657.99		2,420.61
26 () 1 ()	302.1	1,304.4	10,564.23	1.510.50	632.12
Mount Brydges	1,511.7	6.739.2	54,136,23		3,175.61
Mount Forest	3,018.7	14,897.4	111,283.25		6,426.06
Neustadt	231,0	914.0	7,825.66		478.45
Newboro	81.6	329.7	2,683.88		169.43
		0.00	# 040 Of		462.00
Newburgh	221.4	968.0	7,939.96	494.00	463.98 201.44
Newbury	96.8	399.2	3,835.72	484.00	1.571.57
Newcastle	743.4	3,482.7 5,319.3	23,678.91 38,715.88	5,615.50	2,377.66
New Hamburg	1,123,1 5,095.5	25,840.5	163,656.68	25,477.50	10,887.87
Newmarket	3,093.3	23,040,3	103,030.00	20,177.00	10,007.07
New Toronto	23,735.7	127,023.4	751,064.89	118,678.50	51,108.99
Niagara	1,587.0	8,515.3	55,258.32	7,935.00	3,418.53
Niagara Falls	15,749.4	83,601.1	482,372.36	78,747.00	33,872,28
North York Twp	117,688.8	663,495.6	3,723,520.93	588,444.00	255,394.91
Norwich	898.5	4,068.0	31,654.51	4,492.50	1,891.14
NT	459.0	2,232,9	17,926.45		975.20
Norwood	8,128.1	41,735.8	254,025.13	40,640.50	17.398.19
Oakville	209.2	1,188.2	8,271.00	1,046.00	454.50
Oil Springs	347.9	1,188.2	12,834.08	1,040.00	734.19
OmemeeOrangeville	2,451.8	12,011.5	95,851.74		5,214.08
Orangevine	2,731.0	12,011.0	70,001.11		1

SYSTEM

OF THE COST OF POWER

er					rates on att basis
Net revenue		Amounts billed	Balance		
from		(municipalities	credited		
direct	Total cost	at interim	or		
customers	of power	rates)	charged	Interim	Actual
\$	\$	s	\$	\$	
313.77	27,185.86	29,072.97	1,887.11	41.75	\$ 39.04
31.18	3,201.50	3,527.51	326.01	51.00	46.26
235.60	20,812.57	21,698.62	886.05	41.50	39.80
909.04	85,008.73	88,773.60	3,764.87	44.00	42.13
274.88	25,203.29	28,062.68	2,859.39	46.00	41.31
62.99	4,780.25	5,136.43	356.18	36.75	34.19
171.39	15,106.95	16,260.69	1,153.74	42.75	39.71
1,011.05	90,485.84	96,845.15	6,359.31	43.16	40.32
110.93	10,527.12	11,263.63	736.51	45.75	42.76
160.26	13,224.63	13,372.72	148.09	37.60	37.18
6,903.06	584,339.09	593,696.17	9,357.08	38.75	38.14
2,912.35	220,341.31	231,084.73	10,743.42	35.75	34.09
192.84	15,687.82	16,904.68	1,216.86	39.50	36.65
159.27	13,820.22	15,199.08	1,378.86	43.00	39.10
1,711:03	158,178.95	160,450.36	2,271.41	42.25	41.65
353.64	34,033.30	34,732.22	698.92	44.25	43.36
3,156,33	267,422.80	267,955.93	533.13	38.25	38.17
667.27	59,777.85	61,459.80	1,681.95	41.50	40.36
77.72	7,001.87	7,246.75	244.88	42.00	40.59
511.25	43•567.35	49,924.97	6,357.62	44.00	38.40
136.11	12,570.74	12,913.68	342.94	42.75	41.61
681.11	56,630.73	59,710.83	3,080.10	39.50	37.46
1,360.09	116,349.22	124,522.40	8,173.18	41.25	38.54
36.77	8,200.03 2,816.54	8,662.50 2,976.59	462.47	37.50	35.50
			160.05	36,50	34.52
99.75	8,304.19	8,910.68	606.49	40.25	37.51
43.61	4,477.55	4,866.30	388.75	50.25	46.26
334.94 506,02	24,915.54 46,203.02	26,576.54 46,328.56	1,661.00	35.75	33.52
2,295.81	197,726.24	201,271.26	125.54 3,545.02	41.25 39.50	41.14 38.80
10,694.27	910,158.11	937,561.47	27,403.36	39.50	38.35
715.03	65,896.82	65,859.10	37.72	41.50	41.52
7,095.99	587,895.65	610,287.96	22,392.31	38.75	37.33
53,025.44	4,514,334,40	4,589,862.89	75,528.49	39.00	38.36
404.82	37,633.33	38,634.77	1,001.44	43.00	41.88
206.81	18,694.84	20,770.14	2,075.30	45.25	40.73
3,662.17	308,401.65	319,028.26	10,626.61	39.25	37.94
94.26	9,677.24	10,671.36	994.12	51.00	46.26
156.75 1,104,67	13,411.52 99,961.15	14,611.45 109,717.31	1,199.93 9,756.16	42.00 44.75	38.55 40.77

STATEMENT OF THE ALLOCATION

	Power ar supplied d (principate of cost al	al bases	Cost		
Municipality	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
		megawatt-			
	kw	hours	\$	\$. \$
Orillia	4,036.3	15,330.9	140,093.08		8,322.35
Orono	386.5	1,687.2	13,005.31		809.80
Oshawa	53,551.0	289,755.2	1,607,357.23		115,495.56
Ottawa	126,024.6	663,041.0	3,770,912.73		270,692.97
Otterville	324.6	1,456.4	11,084.11	. 1,623.00	682.44
Owen Sound	10,477.4	51,332.5	338,322.28		22,281.77
Paisley	388.1	1,734.9	13,471.11		815.56
Palmerston	1,009.3	5.004.7	34.185.64	5,046.50	2.149.95
Paris	3,176.5	14.675.4	96,699.04	15,882.50	6,703.10
Parkhill	638.6	2,904.0	24,540.29	3,193.00	1,344.86
		·			
Parry Sound	1,443.5	9,063.5	59,520.61		3,186.97
Penetanguishene	2,244.4	11,776.9	72,755.44		4,818.99
Perth	3,303.8	15,165.2	111,123.93		6,965.94
Peterborough	33,751.7	190,345.1	1,054,323.62		73,247.80
Petrolia	1,253.1	6,497.6	49,362.14	6,265.50	2,685.98
Petrolia Waterworks	149.7	649.2	5,286.48	748.50	313.40
Pickering	359.9	1,777.1	12,179,01		766.19
Picton	3.214.4	16,379,4	107,876.56		6,873.02
Plattsville	574.2	2,456.0	19,649,33	2,871.00	1,200.11
Point Edward	3,396,1	12,836.4	99,974.16	16,980.50	6,998.64
Port Burwell	197.1	871.6	7,435.55	985.50	413.63
	F 0 (F 2	27.007.6	466 403 60	05 226 00	10,904.51
Port Colborne	5,067.2 8,467.1	27,007.6 61.191.8	166,403,68 306,929,55	25,336.00 42,335.50	19,165.97
Port Credit	1,412.4	8,369.0	50,274.19	7,062.00	3,088.93
Port Dalhousie	1,658.0	8,729.3	56,340.41	8.290.00	3,561.65
Port Elgin	1,065.8	5,070.7	43,738.57	8,290.00	2,257.70
Port Hope	6,806.0	36,764.9	242,691.11		14,675.17
Port McNicoll	1,062.5	3,112.7	33,181.40		2,136.44
Port Perry	1,031.8	4,999.2	39,029.90		2,190.98
Port Rowan	224.4	1,032.1	8,825.89	1,122.00	473.26
Port Stanley	1,040.6	5,089.4	37,605.78	5,203.00	2,212.47
Prescott	3,163.3	14,852.1	107,479.44		6,689.23
Preston	8,003.3	38,088.8	242,715.96	40,016.50	16,954.21
Priceville	42.2	158.4	1,677.02		86.91
Princeton	217.8	946.0	7,805.01	1,089.00	456.06
Queenston	269.7	1,472.4	9,139.34	1,348.50	582.45
	2.000				6 000 50
Renfrew	1	12,319.5	99,096.03		6,300.88
Richmond		1,818.8	12,270.39		810.20
Richmond Hill		32,376.1	231,514.34	32,714.00	13,933.11
Ridgetown		5,025.9	42,911.48	5,633.50	2,367.02
Ripley	249.4	1,092.4	10,199,78		522.77

SYSTEM

ower			_	Annual a kilowa	
		Amounts			
Net revenue		billed	Balance		
from	m . 1 .	(municipalities	credited		
direct	Total cost	at interim	or	Todouton	4 / 1
customers	of power	rates)	charged	Interim	Actual
\$	\$	\$	\$	\$	\$
1.818.58	146,596.85	150,350.61	3,753.76	37.25	36.32
174.14	13,640.97	14,686.05	1,045.08	38.00	35.29
24,127.75	1,698,725.04	1,834,122.32	135,397.28	34.25	31.72
56,781.17	3,984,824.53	4,032,786.14	47,961.61	32.00	31.62
146.25	13,243.30	14,036.78	793.48	43.25	40,80
4,720.66	355,883.39	377,187.30	21,303.91	36.00	33.97
174.86	14,111.81	15,137.21	1,025.40	39.00	36.36
454.75	40,927.34	42,138.28	1,210,94	41.75	40.55
1,431,19	117,853.45	123,088.08	5,234.63	38.75	37.10
287.73	28,790.42	29,374,44	584.02	46,00	45.08
650.38	62,057.20	62,070.84	13.64	43.00	42.99
1,011.23	76,563.20	80,799.00	4,235.80	36.00	34.11
1,488.55	116,601.32	124,718.15	8,116.83	37.75	35.29
15,207.04	1,112,364.38	1,172,870.14	60,505.76	34.75	32.96
564.59	57,749.03	59,523.84	1,774.81	47.50	46.08
67.45	6,280.93	7,109.96	829.03	47.50	41.96
162.16	12,783.04	14,034.80	1,251.76	39.00	35.52
1,448.27	113,301.31	121,341.71	8,040.40	37.75	35.25
258.71	23,461.73	24,835.96	1,374.23	43.25	40.86
1,530.13	122,423.17	134,994.98	12,571.81 959.64	39.75 49.25	36.05 44.37
88.80	8,745.88	9,705.52	939,04	49.23	44,37
2,283.06	200,361.13	207,755.20	7,394.07	41.00	39.54
3,814.91	364,616.11	359,849.63	4,766.48	42.50	43.06
636,37	59,788.75	60,027.01	238.26	42.50	42.33
747.02	67,445.04	66,320.00	1,125.04	40.00	40.68
480.20	45,516.07	48,228.23	2,712.16	45.25	42.71
3,066.49	254,299.79	282,447.97	28,148.18	41.50	37.36
478.72	34,839.12	36,655.12	1,816,00	34.50	32.79
464.88	40,756.00	43,335.25	2,579.25	42.00	39.50
101.10	10,320.05	10,880.98	560.93	48.50	45.99
468.85	44,552.40	47,088.23	2,535,83	45.25	42.81
1,425.25	112,743.42	120,206.97	7,463.55	38.00	35,64
3,605.94	296,080.73	294,122.51	1,958.22	36.75	36,99
19.01	1,744.92	1,871.75	126.83	44.35	41.35
98.13	9,251.94	10,128.13	876.19 108.59	46.50	42.48 40.60
121.52	10,948.77	11,057.36	100.59	41.00	40.00
1,366.58	104,030.33	109,191.30	5,160.97	36.00	34.30
172.34	12,908.25	13,387.52	479.27	35.00	33.75
2,947.90	275,213.55	282,976.80	7,763.25	43.25	42.06
507.64	50,404.36	54,361.65	3,957.29	48.25	44.74
112.37	10,610.18	11,284.98	674,80	45.25	42.54

STATEMENT OF THE ALLOCATION

			Cost o		
Municipality	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
Riverside	kw 4,853.7 751.6 341.7	megawatt- hours 23,022.4 3,379.8 1,639.3	\$ 162,760.63 24,010.28 13,439.44	\$ 24,268.50 1,708.50	\$ 10,277.56 1,580.60 724.63
Rodney	396.4 81.5	1,743.7 313.8	15,700.67 3,038.27	1,982.00	831.33 168.29
Russell	238.2 40,454.1 510.7 386.2 438.0	1,061.0 203,550.9 2,268.4 1,786.8 1,677.2	7,589.79 1,210,792.96 17,141.70 13,429.84 16,308.12	202,270.50 2,553.50 1,931.00 2,190.00	500.33 86,346.59 1,072.33 815.11 903.90
St. Mary's	7,834.9 12,510.2 5,129.9 7,951.7 40,552.2	51,543.8 70,369.8 25,434.5 38,511.0 280,086.7	253,833.51 378,818.02 170,725.41 261,972.73 1,341,093.54	39,174.50 62,551.00 25,649.50 39,758.50 202,761.00	17,436.15 27,138.86 10,927.23 16,884.19 91,029.37
Scarborough Twp	99,596.5 1,437.5 724.4 6,473.8	531,514.9 6,686.8 3,201.6 33,552.2	3,107,785.26 37,126.07 29,421.88 201,330.82	497,982.50 7,187.50 	214,369.30 3,036.12 1,520.10 13,875.45
Smith's Falls. Smithville. Southampton. Springfield. Stamford Twp. Stayner.	6,246.5 461.4 978.6 190.1 13,477.1 864.7	29,346.2 1,880.5 4,936.3 863.6 72,399.1 4,015.2	187,495.89 16,285.93 40,382.10 6,275.41 418,734.57 33,166.47	2,307.00 950.50 67,385.50	958.88 2,089.48 400.29 29,035.82 1,825.90
Stayner Stirling. Stoney Creek Stouffville Stratford. Strathroy.	712.2 2,943.3 1,502.8 13,982.6 3,062.8	3,288.0 15,428.3 6,900.0 72,162.0 15,789.3	22,312.05 99,527.99 54,454.03 411,782.75 93,612.55	14,716.50 7,514.00 69,913.00 15,314.00	1,502.76 6,318.67 3,168.71 29,951.20 6,559.60
Streetsville. Sunderland. Sundridge. Sutton. Swansea.	2,342.9 332.3 251.3 874.0 4,951.1	11,552.6 1,454.4 1,194.8 4,418.3 29,103.5	82,270.18 13,204.18 11,206,90 34,589.53 159,997.44	11,714.50 	4,986.87 696.47 532.29 1,866.71 10,814.35
Tara. Tavistock Tecumseh Teeswater Thamesford.	297.1 729.5 1,129.2 514.6 459.7	1,268.4 3,457.6 5,413.4 2,506.8 2,198.4	11,616.57 25,773.47 38,471.31 20,218.86 18,200.38	3,647.50 5,646.00 2,298.50	620.82 1,544.54 2,394.42 1,093.53 974.46

SYSTEM

power		ower					rates on att basis
		Amounts					
Net revenue		billed	Balance				
from		(municipalities	credited				
direct	Total cost	at interim	or				
customers	of power	rates)	charged	Interim	Actual		
\$	\$	\$	\$	\$			
2,186,87	195,119.82	200,214,45	5,094.63	41.25	\$ 40.20		
338.64	25,252.24	26,869.09	1,616.85	35.75	33.60		
153.96	15,718.61	15,803.25	84.64	46.25	46.00		
178.60	18,335.40	20,217.27	1,881.87	51.00	46.26		
36,72	3,169.84	3,442.66	272.82	42.25	38.89		
107.32	7,982.80	8,454.93	472.13	35.50	33.51		
18,226.85	1,481,183.20	1,517,028.44	35,845.24	37.50	36.61		
230.10	20,537.43	20,940.07	402.64	41.00	40.21		
174.00	16,001.95	16,797.53	795.58	43.50	41.43		
197.34	19,204.68	19,488.80	284.12	44.50	43.85		
3,530.06	306,914.10	302,414.27	4,499.83	38.60	39.17		
5,636.55	462,871.33	481,642.70	18,771.37	38.50	37.00		
2,311.31	204,990.83	218,021.81	13,030,98	42.50	39.96		
3,582.69	315,032.73	337,949.02	22,916.29	42.50	39.62		
18,271.05	1,616,612.86	1,662,640.22	46,027.36	41.00	39,98		
44,873.84	3,775,263.22	3,909,162.31	133,899.09	39.25	37.91		
647.67	46,702.02	49,234.66	2,532.64	34.25	32,49		
326.38	30,615.60	33,685.79	3,070.19	46.50	42.26		
2,916,81	244,658.46	249,242.92	4,584.46	38.50	37.79		
2,814.40	197,891,63	209,257.46	11,365.83	33.50	31.68.		
207.89	19,343.92	21,800.36	2,456.44	47.25	41.92.		
440.91	42,030.67	44,525.91	2,495.24	45.50	42.95		
85.65	7,540.55	8,460.93	920.38	44.50	39.67		
6,072.19	509,083.70	512,131.06	3,047.36	38.00	37.77		
389.60	34,602.77	36,099.86	1,497.09	41.75	40.02		
320.89	23,493.92	24,750.40	1,256.48	34.75	32.99		
1,326.12	119,237.04	122,884.17	3,647.13	41.75	40.51		
677,10	64,459.64	66,497.82	2,038.18	44.25	42.89		
6,299,95	505,347.00	524,347.84	19,000,84	37.50	36.14		
1,379.96	114,106.19	117,151,47	3,045.28	38.25	37.26		
1,055.61	97,915.94	98,401.80	485.86	42.00	41.79		
149.72	13,750.93	14,623.02	872.09	44.00	41.38		
113.22	11,625.97	12,814.20	1,188.23	51.00	46.26		
393.79	40,432.45	41,954.00	1,521.55	48.00	46.26		
2,230.75	193,336.54	196,804.57	3,468.03	39.75	39.05		
133.86	12,103.53	12,847.77	744.24	43.25	40.74		
328.68	30,636.83	31,185.06	548.23	42.75	42.00		
508.77	46,002.96	48,273.66	2,270.70	42.75	40.74		
231.86 207.12	21,080.53 21,266.22	22,822.41 21,835.75	1,741.88 569.53	44.35 47.50	40,96 46,26		

STATEMENT OF THE ALLOCATION

	Power an supplied du (principa of cost all	iring year	Cost o		
Municipality	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
		megawatt-		2	š
	kw	hours	\$	\$ 0.044.50	-
Thamesville	568.9	2,374.3	21,925.99	2,844.50	1,185.55 694.21
Thedford	326.4	1,600.4	12,920.89	1,632.00	1,032.24
Thornbury	487.6	2,308.8	19,032.76	986.50	409.71
Thorndale	197.3	798.8	6,971.09		225.37
Thornton	109.0	424.6	3,710.83		225.51
m II	9,769,7	60,381.0	314,002,86	48.848.50	21,513.02
Thorold	1,037.7	4,764.9	41,094.86	5,188.50	2,188.05
Tilbury	4.068.9	19,285.9	116,451.03	20,344.50	8,614.95
Tillsonburg	531,438.8	3,144,648.5	16,416,627.68	2.657,194.00	1,162,007.16
Toronto Twp	44,361.2	288,512.4	1,497,045.26	221,806,00	98,527.63
Z OT OTTO					
Tottenham	321.8	1,573.8	12,496.04		684.19
Trafalgar Twp	10,588.9	57,674.1	350,783.20	52,944.50	22,859.82
Trenton	14,343.8	81,180.8	435,874.97		31,145.78
Tweed	885.9	4,123.3	29,291.14		1,871.23
Uxbridge	1,321.3	6,237.6	50,419.50		2,796.06
WP 4 5 4 TW-15	452.0	1,996.0	16,406.24		948.39
Vankleek Hill	276.3	1,218.4	10,523.01		579.64
Walkerton	2,278.2	9,487.0	77.879.65		4,746.42
Wallaceburg	7,636,6	42,160.9	241,980.82	38,183.00	16,519.61
Wardsville	138.2	618.6	5,473.50	691.00	290.46
		0464	7 005 42		461.51
Warkworth	223.6	857.5	7,285.13 22,285.99		1,229.00
Wasaga Beach	598.7 901.2	2,181.4 4.346.4	28,536,44	4,506.00	1,912,49
Waterdown	834.1	3,688.2	28,143.12	4,170.50	1,750.41
Waterford	13,218.8	68,183.4	353,961.16	66,094.00	28,312.96
Waterloo	10,210.0	00,100.1			
Watford	945.7	4,112.5	34,955.14	4,728.50	1,980.54
Waubaushene	273.1	1,184.0	10,285.81		571.73
Welland	12,346.9	61,366.1	370,293.92	61,734.50	26,308,98
Wellesley	364,3	1,417.3	12,432.04	1,821.50	753.12
Wellington	487.0	2,278.9	18,177.77		1,029,38
	0170	2 650 0	22 204 00	4,089,50	1,718.37
West Lorne	817.9 7.709.2	3,650.0 41.474.6	32,394,08 240,924,78	38,546.00	16,612,71
Weston	316.9	1,411.2	10,686.08	38,340.00	665.62
Westport	695,3	3,126.5	26,512.00	3,476.50	1,462.19
Wheatley	8,836.8	46,018.7	267,016.32	3,470.30	18,953.04
YTHOUY					
Wiarton	1,019.8	5,322.4	40,489.94		2,187.93
Williamsburg	195.4	873.0	7,916.73		410.59
Winchester	952.8	4,649.6	36,363.53		2,025.19
Windermere		451.2	3,865.99		225.46
Windsor	73,086.4	364,853.5	2,196,538.33	365,432.00	155,827.96

SYSTEM

OF THE COST OF POWER
ended December 31, 1958

ower				Annual a kilowa	
		Amounts			
Net revenue		billed	Balance		
from		(municipalities	credited		
direct	Total cost	at interim	or		
customers	of power	rates)	charged	Interim	Actual
\$	s	\$	\$	\$	\$
256.32	25,699.72	26,027.56	327.84	45.75	45.17
147.06	15,100.04	15,991.98	891.94	49.00	46.26
219.69	19,845.31	20,887.12	1,041.81	42.84	40.70
88.89	8,278.41	8,383.12	104.71	42.50	41.96
49.11	3,887.09	4,088.14	201.05	37.50	35.66
4,401.80	379,962.58	388,346.26	8,383.68	39.75	38.89
467.54	48,003.87	49,548.99	1,545.12	47.75	46.26
1,833.27	143,577.21	149,531.77	5,954.56	36.75	35.29
239,443.15	19,996,385.69	20,327,532.19	331,146,50	38.25	37.63
19,987.22	1,797,391.67	1,818,810.91	21,419.24	41.00	40.52
144.99	13,035.24	13,999,40	964.16	43.50	40.51
4,770.90	421,816.62	444,733.45	22,916.83	42.00	39.84
6,462.69	460,558.06	459,002.40	1,555.66	32.00	32.11
399.15	30,763.22	32,334.14	1,570.92	36.50	34.73
595.32	52,620,24	55,823.53	3,203.29	42.25	39.82
203.65	17,150.98	17,855.05	704.07	39.50	37.94
124.49	10,978.16	11,730.10	751.94	42.45	39.73
1,026.45	81,599.62	86,001.41	4,401.79	37.75	35.82
3,440.72	293,242.71	307,373.84	14,131.13	40.25	38.40
62.27	6,392.69	6,945.83	553.14	50.25	46.26
100.74	7,645.90	8,830.88	1,184.98	39.50	34.19
269.75	23,245.24	25,145.75	1,900.51	42.00	38.83
406.04	34,548.89	36,724.89	2,176.00	40.75	38.34
375.81	33,688.22	35,864.89	2,176.67	43.00	40.39
5,955.81	442,412.31	459,352.72	16,940.41	34.75	33.47
426.09	41,238.09	42,317.85	1,079.76	44.75	43.61
123.05	10,734.49	11,198.81	464.32	41.00	39.31
5,562.97	452,774.43	475,354.37	22,579.94	38.50	36.67
164.14	14,842.52	15,299.55	457.03	42.00	40.74
219,42	18,987.73	19,968.36	980.63	41.00	38.99
368.51	37,833.44	41,510.12	3,676.68	50.75	46.26
3,473.43	. 292,610.06	304,514.71	11,904.65	39.50	37.96
142.78	11,208.92	11,961.08	752.16	37.75	35.37
313.27	31,137.42	32,157.63	1,020.21	46.25	44.78
3,981.48	281,987.88	304,871.04	22,883.16	34.50	31.91
459.48	42,218.39	45,382.97	3,164.58	44.50	41.40
88.04	8,239.28	8,990.30	751.02	46.00	42.17
429.29	37,959,43	40,254.39	2,294,96	42.25	39.84
48.75	4,042.70	4,244.90	202.20	39.25	37.36
32,929.54	2,684,868.75	2,832,098.64	147,229.89	38.75	36.74

STATEMENT OF THE ALLOCATION

for the Year

Power and supplied dur (principal of cost alloc		luring year oal bases			Cost of
Municipality	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
Wingham. Woodbridge. Woodstock Woodville. Wyoming.	kw 1,729.1 1,800.8 15,604.8 179.5 316.5	megawatt- hours 9,189.5 9,225.3 84,450.2 758.0 1,317.6	\$ 66,038.31 62,608.64 474,345.87 7,753.51 12,062.13	\$ 9,004.00 78,024.00 1,582.50	\$ 3,719.43 3,853.35 33,656.40 374.59 659.37
York Township	53,379.5 314.8 18.8	313,651.2 1,322.4 80.7	1,666,663.66 12,168.76 1,841.44	· 266,897.50 1,574.00	116,586.03 656.53 39.32
Total—Municipalities Total—Rural Power District Total—Companies 25-cycle Secondary customers Total—Local distribution systems	2,518,461.4 432,133.8 624,091.8 	13,976,583.9 2,185,504.5 5,735,849.7 1,551.618.7 4,268.1	79,169,238.40 15,023,352.26 21,951,181.76 	10,192,895.50 1,312,775.00 3,260,424.51	5,452,233.29 923,017.30 1,422,454.56
GRAND TOTAL	3,575,773.1	23,453,824.9	116,238,107.27	14,766,095.01	7,799,952.95

Notes on Allocation of Cost of Power

SOUTHERN ONTARIO SYSTEM

1. The average peak load supplied in the year represents primary power only. 60-cycle secondary energy exported is included in energy supplied to companies, and other secondary energy (which is almost entirely 25-cycle energy) appears separately on the statement of the allocation of the cost of power.

2. The total of \$116,238,107 shown under the heading "Power purchased, operating costs and net fixed charges" includes the following items of cost shown in the Statement of Operations:

Cost of power purchased\$	13,819,110
Operation, maintenance and administrative expenses	43,479,589
Interest	44,620,222
Depreciation	10,667,517
Sinking fund provision	12,655,670
Interchange of power with Northern Ontario Properties	
Sale of 25-cycle secondary energy	5,096,253
Credit resulting from matured sinking fund	398,686

\$116,238,107

Interchange of power, \$3,509,062, represents the cost of 1,099,669 megawatt-hours of energy transferred to the Northern Ontario Properties. The megawatt-hours transferred are not included in the total of 23,453,824.9 megawatt-hours of energy supplied during the year.

Revenue from the sale of 25-cycle secondary energy, \$5,096,253, and related costs, \$1,700,284, have in 1958 been taken into account in determining the cost of power, and cost sto all customers have accordingly been reduced by the net revenue of \$3,395,969. In 1957 and prior years, such revenue and the related costs were included in amounts billed and costs allocated to companies.

SYSTEM

OF THE COST OF POWER ended December 31, 1958

power		100		Annual rates on a kilowatt basis	
Net revenue from direct customers	Total cost of power	Amounts billed (municipalities at interim rates)	Balance credited or charged	Interim	Actual
\$	\$	\$	\$	\$	s
779.06	68,978.68	73,487.11	4,508.43	42.50	39.89
811.36	74,654.63	77,435.84	2,781.21	43.00	41.46
7,030.84	578,995.43	592,983.66	13,988.23	38.00	37.10
80.87	8,047.23	8,481.77	434.54	47.25	44.83
142.60	14,161.40	14,320.12	158.72	45.25	44.74
24,050.47	2,026,096.72	2,055,110.75	29,014.03	38.50	37.96
141.87	14,257.42	14,557.19	299.77	46.25	45.29
	1,880.76	1,291.84	588,92		100.04
1,134,700.40	93,679,666.79	96,507,830.58	2,828,163.79		
194,700.64	17,064,443.92	17,064,443.92			
1,340,005.69	27,974,066.52	27,974,066.52			
10,604.65	85,978.00	85,978.00			
	138,804,155.23	141,632,319.02	2,828,163.79		

3. Frequency standardization costs are shown in the Statement of Operations as follows:

Interest	 	7,545,750
Portion of cost written off	 	7,220,345
		\$14,766,095

This represents a charge to all customers in the Niagara Division (except certain companies which will not be standardized at 60 cycles) at the rate of \$5 per kilowatt on the average monthly peak load supplied amounting to \$12,401,065 plus an amount equal to the net revenue on the export of 60-cycle secondary energy amounting to \$2,365,030. The latter amount is included in the \$3,260,425 frequency standardization cost charged to companies.

4. The provision for stabilization of rates and contingencies consists of:

Provision for stream-flow variation	\$ 5	,363,660
Provision for nuclear research	.2	,436,293
_	\$ 7	7,799,953

The provision for stream-flow variation represents a charge of \$1.50 per kilowatt on the average monthly peak load supplied to all customers.

The provision for nuclear research was charged to all customers on the basis of 50 per cent on the quantity of energy supplied and 50 per cent on average monthly peak loads. It represents the Southern Ontario System's share of a total provision of \$3,000,000 charged to the Southern Ontario System and the Northern Ontario Properties in proportion to their average monthly peak loads.

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1958

		as at Dec	ember 31	, 1700			
	municipality t	t paid as part of ogether with porovided out of interest a	roportionate revenues of	share of other			
Municipality		Net provision	Sinking fund equity acquired		Matured portion of sinking fund	Reduction made in cost of power from matured sinking fur	
	Balance Jan. 1, 1958	credited during year	through annexation	Balance Dec. 31, 1958	January 1, 1958	Interest	Provision
	\$	\$	\$	\$	\$	\$	\$
Acton	310,162.30	26,410.61	366.34	336,939.25	28,587.84	1,143.51	301.03
Ailsa Craig	46,857.51	3,000.19		49,857.70	1,107.31	44.29	11.60
Ajax	30,496.94	20,835.28		51,332.22			
Alexandria	110,591.18	10,848.85		121,440.03			
Alfred	3,006.78	1,406.04		4,412.82			
Alliston	106,737.09	11,019.75		117,756.84	879,39	35.18	9.20
Almonte	36,426.19	6,460.76		42,886.95			
Alvinston	46,035.98	2,888.23		48,924.21			
Amherstburg	241,574.14	21,927.45		263,501.59	33,584.05	1,343.37	353.6
Ancaster Twp	91,573.99	11,520.59		103,094.58			
Apple Hill	10,876.92	791.57		11,668.49			
Arkona	25,022.41	2,141.85		27,164.26			
Arnprior	149,299.68	21,490.10		170,789.78			
Arthur	66,222.55	5,378.96		71,601.51			
Athens	26,837.94	2,465.77		29,303.71		• • • • • • • • • • • • • • • • • • • •	
Aurora	120,307.31	18,530.91	99.67	138,937.89			
Aylmer	213,685.47	22,829.39	893.48	237,408.34	708.45	28.34	7.4
Ayr	57,781.72	5,038.39		62,820.11	520.42	20.82	5.4
Baden	. 102,263.47	5,750.69		108,014.16	28,169.04	1,126.76	296.6
Bancroft	13,672.37	6,963.94	954.35	21,590.66			******
Barrie	726,779.72	81,967.96		808,747.68	13,796.77	551.87	145.2
Barry's Bay	7,122.25	1,586.44		8,708.69			
Bath	12,707.34	1,661.67		14,369.01			
Beachville	154,984.49	14,826.33		169,810.82	30,511.87	1,220.47	321.2
Beamsville	62,086.51	8,239.06		70,325.57			******
Beaverton	75,419.64	7,475.05		82,894.69			
Beeton	48,751.11	3,732.88		52,483.99	588.79	23.55	6.2
Belle River	49,417.06	4,653.93		54,070.99			
Belleville	959,783.43	98,831.29	2,769.49	1,061,384.21			
Blenheim	140,532.40	10,897.88		151,430.28	1,030.39	41.22	10.8
Bloomfield	29,313.91	2,696.44		32,010.35			
Blyth	43,186.65	4,293.29		47,479.94			
Bobcaygeon	18,160.42	3,403.00		21,563,42			
Bolton		6,155.34	60.78	69,804.31	1,291.55	51.66	13.6
Bothwell	53,559.17	3,710.04		57,269.21	700.85	28.03	7.3
Bowmanville	364,812.66	36,091.18	259.29	401,163.13			
Bracebridge		162.87		1,662.59			
Bradford	82,788.45	9,235.89		92,024.34	59.83	2.39	.6
Braeside		2,042.30		14,829.45	05.00	2.07	
Brampton		58,548.42		717,442.73	75,603.04	3,024.12	796.1
	.,						

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1958

			, (,				
		Net amount municipality t sinking funds p	t paid as part o ogether with pr rovided out of a interest al	oportionate revenues of t	share of other			
	Municipality		Net provision	Sinking fund equity acquired		Matured portion of sinking fund	Reduction cost of po matured sir	wer from
		Balance Jan. 1, 1958	credited during year	through annexation	Balance Dec. 31, 1958	January 1, 1958	Interest	Provision
-			\$	\$	\$	\$	\$	\$
12.	rantford	3.753.119.44	307,355.02	4,415.98	4,064,890.44	32,092.12	1,283.68	337.93
	rantford Twp	84,353.06	20,750.86	69,566.60	174,670.52			
	rechin	21,127.43	1,412.85		22,540.28			
	ridgeport	37,479.45	4,291.93	278.02	42,049.40		44.04	2.06
	rigden	36,590.23	2,403.89		38,994.12	281.10	11.24	2,96
-		70,918.39	7,919.19		78,837.58			
	righton	839,259.62	86,950.59	8,426.23	934,636.44			
	rockville	16,263.28	4,327.83		20,591.11			
	russels	52,649.21	4,638.36	9.69	57,297.26			
	urford	56,287.07	5,079.45	86.20	61,452.72	425.45	17.02	4.48
		10 006 14	1,456.35		20,342.79	290,60	11.62	3.06
	urgessville	18,886.44 10,373.00	2,236.76		12,609.76			
	urk's Falls	169,113.40	47,095.43		216,208.83			. ,
	urlington	85,254,27	6,745.24		91,999.51	7,321.94	292.88	77.10
	ampbellville	11,837.09	1,067.69		12,904.78	113.96	4.56	1.20
) mg	ic .				64 000 64			, , , , , , , , ,
C	annington	57,120.82	4,869.82		61,990.64 51,846.14			
	ardinal	46,123.63	5,722.51		334,045.53			
	Carleton Place	308,995.76 8,385.03	25,049.77 2,721.84		11,106.87			
	Casselman	38,001.69	3,080.56		41,082.25			
(Cayuga	36,001.09	3,000,00					
(Chalk River	3,291.94	1,506.06	3,507.38	8,305.38			
	Chatham	1,511,244.61	120,418.34		1,631,662.95	15,443.49	617.74	162.62
	Chatsworth	20,783.83	1,920.63		22,704.46			
	Chesley	130,896.21	9,877.39		140,773.60			, , , , , , , ,
	Chesterville	96,228.37	8,831.06		105,059.43			,,,,,,,,
-	Chippawa	66,243.31	6,575.17	294.35	73,112.83	,		,,,,,,,
	Clifford	30,123.34	2,737.53		32,860.87			45.72
	Clinton	179,799.72	15,393.63	30.37	195,223.72	1,493.83	59.75	15.73
	Cobden	21,422.08	2,876.24		24,298.32			, , , , , , , ,
	Cobourg	370,286.03	48,955.55		419,241.58		******	
	2.11	36,984.16	4.764.61		41,748.77			
	Colborne		3,793.25		49,973.92	1,063.63	42.55	11.20
	Coldwater		43,549.11		556,308.62	52,338.08	2,093.52	551.12
	Comber		3,344.51	i	57,910.68		10.26	2.70
	Cookstown		2,214.45		25,075.41	611.59	24.46	6.44
		10 706 67	1 664 20		21,261.04	,		,
	Cottam				20,833.14			,,,,,,,
-	Courtright	19,370.91 42,098.51					48.02	12.64
	Creemore						23.82	6.27
	Dashwood		4,628.56	1	1			
	Deep River		2,020,00					

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1958

	NT - 1		St -5	bu ooob			
		t paid as part o ogether with pr					
		provided out of					
	Siliking runds p	interest a		one oyotem und			
		interest a					
-						Reduction	made in
			Sinking			cost of po	wer from
Municipality			fund		Matured	matured si	
		Net provision	equity		portion of		
		and interest	acquired		sinking fund		
	Balance	credited	through	Balance	January 1,		
	Jan. 1, 1958	during year	annexation	Dec. 31, 1958	1958	Interest	Provision
	\$	\$	\$	\$	\$	\$	\$
Delaware	15,968.69	1,580.61	φ	17,549.30	98.77	3.95	1.04
Delhi	81,495.44	12.314.54		93,809.98			
Deseronto	48,005.24	5,918.65		53,923.89			
Dorchester	29,060.84	2,543.65		31,604.49	212.73	8.51	2.24
Drayton	43,047.57	3,046.08		46,093.65	410.26	16.41	4.32
Didyton	10,011101	0,010.00		10,000,00	110.20	10.11	1.02
Dresden	119,727.09	9,494.18		129,221.27	1,132.95	45.32	11.93
Drumbo	24,864.67	1,942.90		26,807.57	186.13	7.45	1.96
Dublin	18,982.84	1,631.63		20,614,47	344.73	13.79	3.63
Dundalk	49,920.58	4,061.12		53,981.70			
Dundas	522,690.06	40,416.09	823.81	563,929.96	94,406.46	3,776.26	994.10
Dunnville	269,289.53	25,839,37		295,128,90	468.19	18.73	4.93
Durham	111,201.27	10,427.67		121,628.94	400.19	10.73	4,93
Dutton	63,029.22	4,269,29		67,298.51	704.65	28.19	7.42
East York Twp	1,731,902.02	208,792.13		1,940,694,15			
Eganville	4,992.61	1,938.97		6,931.58			
Elmira	292,871.50	25,189.08		318,060.58	1,959.16	78.37	20.63
Elmvale	52,334.35	4,137.64		56,471.99	3,860.40	154.42	40.65
Elmwood	17,636.67	1,409.91		19,046.58			
Elora	122,507.24	8,160.97		130,668.21	2,122.51	84.90	22.35
Embro	39,326.10	3,005.37		42,331.47	294.40	11.78	3.10
Erieau	32,458,26	2,935,32		35,393.58			
Erie Beach	6,047.25	475.93		6,523.18			
Erin	10,298.87	2,467.11		12,765.98			
Essex	133,071.70	10,436.87		143,508.57	19,368.47	774.74	203.95
Etobicoke Twp	2,291,033.13	451.651.73	14,046.97	2,756,731.83	2,186.13	87.45	23.02
Freeton	174 024 16	15 024 02		100.000.00	4 007 00	#2.04	
Exeter	174,034.16 269,364.70	15,034.83 24,293.92	104.55	189,068.99	1,805.32	72.21	19.01
Fergus	19,514.61	1,729.67	1	293,763.17	1,452.99	58.12	15.30
Flesherton	24,194,32	2,128.61		21,244.28			
Fonthill	44,609.59	6,110.61		26,322.93 50,720.20			
2 3	11,000,00	0,110.01		30,720.20			
Forest	134,830.39	11,200.89		146,031.28	1,259.26	50.37	13.26
Forest Hill	897,492.07	85,039,22		982,531.29			
Frankford	13,961.53	2,816.73		16,778.26			
Galt	2,034,688.75	149,066.27	13,027.72	2,196,782.74	234,930.67	9,397.23	2,473.82
Georgetown	421,269.23	41,258.82	4,545.24	467,073.29	4,358.02	174.32	45.89
Glencoe	67,665.68	4,992.86		72,658.54			
Goderich	448,120.60	38,104.05		486,224.65	4,141.50	165,66	43.61
Grand Bend	19,472.61	4,017.32	11,996.55	35,486.48	113.96	4.56	1.20
Grand Valley	45,926.80	3,810.27	11,770.33	49,737.07	113.90	4.30	1.20
Granton	23,469,14	1,365.25		24,834.39	505.22	20.21	5,32
Granton		1,000,20					

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1958

	municipality t	t paid as part o ogether with pr provided out of interest a	oportionate revenues of t	share of other	,				
			1			Reduction	made in		
			Sinking			cost of po			
Municipality			fund		Matured	matured sin			
1v2 dilicipation		Net provision	equity		portion of				
		and interest	acquired		sinking fund				
	Balance	credited	through	Balance	January 1,				
	Jan. 1, 1958	during year	annexation	Dec. 31, 1958	1958	Interest	Provision		
	\$	\$	\$	\$	\$	\$	\$		
Gravenhurst	165,920.04	17,098.23		183,018.27					
Grimsby	89,008.18	14,145.50	689.97	103,843.65	217,005.70	8,680.23	2,285.07		
Guelph	2,392,668.95	194,670.79	7,050.16	2,594,389.90	1,403.61	56.14	14.78		
Hagersville	247,102.16	17,478.71	50 901 40	264,580.87	588,945.87	23,557.83	6,201.60		
Hamilton	21,372,925.79	1,897,963.52	50,891.40	23,321,780.71	300,943.01	23,331.83	0,201,00		
Hanover	303,537.80	25,652.22		329,190.02	,,,,,,,,,,				
Harriston	126,617.15	10,118.48		136,735.63	991.45	39.66	10.44		
Harrow	114,600.81	9,619.93		124,220.74	6,473.88	258.96	68.17		
Hastings	22,884.57	2,522,68		25,407.25					
Havelock	44,650.50	3,680,60		48,331.10			,		
Travelock									
Hawkesbury	25,771.64	9,764.93		35,536.57					
Hensall	64,010.92	5,761.48		69,772.40	566.00	22.64	5.96		
Hespeler	481,100.03	36,381.25	760.30	518,241.58	34,273.50	1,370.94	360.90		
Highgate	30,381.14	2,050.26		32,431.40	676.16	27.05	7.12		
Holstein	9,469.71	788.17		10.257.88					
				266,000,40		5.6			
Huntsville	245,837.59	21,009.84	62.05	266,909.48	06 174 74	2 446 00	907.42		
Ingersoll	636,390.11	41,540.43		677,930.54	86,174.74	3,446.99			
Iroquois	29,717.69	4,412.35		34,130.04 53,078.18					
Jarvis	49,671.41	3,406.77 9,774.28		103,643.14					
Kemptville	93,868.86	9,114.28		103,043.14					
Kincardine	177,438.68	16,007.38		193,446,06					
Kingston	1,430,071.63	195,924.05	4,262,48	1,630,258.16					
Kingsville	159,120,40	12,154.22		171,274.62	20,932.57	837.30	220.42		
Kirkfield	10,588.79	786.17		11,374.96					
Kitchener	4,933,114.26	390,492.83	35,958.58	5,359,565.67	351,541.31	14,061.65	3,701.73		
			1						
Lakefield	75,120.68	7,279.46		82,400.14					
Lambeth	45,771.58	4,986.43		50,758.01	204.18	8.17	2.15		
Lanark	25,369.67	2,200.18	5	27,569.85					
Lancaster		1,798.40		22,251.17					
La Salle	71,742.44	7,726.12		79,468.56					
	100.000.45	27 704 40	355.85	441,012,18	24,666.67	986.67	259.74		
Leamington		37,594.18		566,835.10	24,000.07	300.07	207.71		
Lindsay		50,534.11 23,580.35		322,185.42	2.637.23	105.49	27.77		
Listowel	1		1	8,564,451.40	744,827.16	29,793.08	7,843.03		
London Twp			1	114,221.49					
London 1 wp	101,007.02	12,20211							
Long Branch	255,346.74	36,005.09		291,351.83					
L'Orignal				5,827.67					
Lucan				68,131.48	1,755.94	70.24	18.49		
Lucknow			1	83,100.78					
Lynden		2,637.24	31.21	41,697.37	945.87	37.83	9.96		

SOUTHERN ONTARIO SYSTEM STATEMENT OF SINKING FUND EQUITY

as at December 31, 1958

	Net amoun	t paid as part o	f cost of pow	ver by each			
	municipality t sinking funds p	orovided out of interest a					
Municipality		Net provision	Sinking fund equity acquired		Matured portion of sinking fund	Reduction made in cost of power from matured sinking fund	
	Balance Jan. 1, 1958	and interest credited during year	through annexation	Balance Dec. 31, 1958	January 1,	Interest	Provision
	\$	\$	\$	\$	\$	\$	\$
Madoc	48,939.76	5,304.62		54,244.38			
Magnetawan	1,975.85	447.21		2,423.06			
Markdale	43,504.69	4,201.43 13,124.33	1,181.89	47,706.12 108,162.98			
Markham	93,856.76 33,336.27	4,409.11	77.89	37,823.27			
Martintown	9,183.83	956.29		10,140.12			
Maxville	35,322.33	3,248.00		38,570.33			
Meaford	156,663.74	16,981.95		173,645.69			
Merlin	36,041.66	2,581.68		38,623.34			
Merrickville	10,473.53	2,024.09		12,497.62			
Merritton	1,035,841.36	106,304.98		1,142,146.34			
Midland	748,367.14	55,131.44		803,498.58	38,448.24	1,537.93	404.86
Mildmay	24,408.49	2,853.47		27,261.96 19,039.33			
Millbrook	16,683.57 354,638.68	2,355.76 31,364.02		386,002.70	4,850,90	194.04	51.08
3.511	121 045 26	0.044 50		140,811.88	2,979.11	119.16	31.37
Milverton	131,945.36 550,271.47	8,866.52 50.877.45		601,148.92	18,402.66	736.11	193.78
Mitchell	163,209.39	11,769.75		174,979.14	29,209.88	1,168.40	307.58
Moorefield	21,441.88	1,618.15		23,060.03	205.13	8.21	2.16
Morrisburg	46,514.61	7,219.15		53,733.76			
Mount Brydges	27,877.72	2,462.59		30,340.31	320.04	12.80	3.37
Mount Forest	134,054.03	12,142.35		146,196.38			
Napanee	218,899.30	23,173.72		242,073.02			
Neustadt	22,014.31	1,849.68	45.70	23,863.99			
Newboro	2,347.50	431.70	45.70	2,824.90			
Newburgh	5.714.22	1,251.93		6,966.15			
Newbury	14,691.78 32,199.92	1,079.54 4,424.99		15,771.32 36,624.91			
New Hamburg	162,040.78	10,137.61	28.92	172,207.31	31,782.53	1,271.30	334.67
Newmarket	155,630.59	28,258.44	539.75	184,428.78			
New Toronto	1,798,565.25	172,166.92		1,970,732.17	24,100.66	964.03	253.78
Niagara	135,081.27	12,623.58		147,704.85			
Niagara Falls	1,856,331.37	137,976.11		1,994,307.48	29,334.28	1,173.37	308.89
North York Twp	2,888,283.64 119,806.30	617,641.74 7,531.78	7,255.01	3,513,180.39 127,338.08	30,445.39	1,217.82	320.59
NorwoodOakville	32,754.87 195,627.93	3,586.37 42,073.38		36,341.24 237,701.31			
Oil Springs	66.855.10	3,768.03		70,623.13	475.78	19.03	5.01
Omemee	18,704.21	2,387.80	176.25	21,268.26			
Orangeville	191,047.31	19,482.15		210,529.46			
Orillia	59,253.46	19,535.08	223.18	79,011.72			
Orono	15,273.42	2,302.41		17,575.83			
Oshawa	2,897,276.82	331,920.05	32,602.37	3,261,799.24		20.40	F 0.4
OttawaOtterville	3,420,848.19 32,502.40	641,622,44 2,731.67	26,322.97	4,088,793.60	554.61 270.66	22.18 10.83	5.84 2.85
	34.304.40	6 (310)		33 / 54 11/	//1100		

SOUTHERN ONTARIO SYSTEM STATEMENT OF SINKING FUND EQUITY

as at December 31, 1958

(continued)

		t paid as part o					
		ogether with provided out of interest a	revenues of				
Municipality		Net provision	Sinking fund equity		Matured portion of	Reduction cost of po matured si	wer from
		and interest	acquired		sinking fund		
	Balance	credited	through	Balance	January 1,		
	Jan. 1, 1958	during year	annexation	Dec. 31, 1958	1958	Interest	Provision
							-
	\$ 953,821.65	\$ 81,517.67	\$	\$ 1,035,339.32	\$	\$	\$
Owen Sound	41,306.20	3,332.28		44,638.48		* * * * * * * * *	
Paisley	145,729.19	10,288.95	868.66	155,149.48	1,081.67	43.27	11.39
Paris	378,834.99	27,873.61	2,191.03	408,899.63	6,573.60	262.94	69.22
Parkhill	72,297.43	6,021.95		78,319.38			,,,,,,,
Parry Sound	40,121.53	8,866.63		48,988.16			21211
Penetanguishene	223,529.89	14,110.34		237,640.23	91,433.05	3,657.32	962.79
Perth	291,284.64	26,133.56		317,418.20		,,,,,,,,	.,,,,,,
Peterborough	1,934,140.87	218,100.30	4,210.53	2,156,451.70			
Petrolia	305,468.57	18,980.60		324,449.17	4,215.57	168.62	44.39
Pickering		1,591.84		1,591.84		,,,,,,,	
Picton	248,925.41	24,190.19		273,115.60			
Plattsville	39,970.64	4,156.03	135.85	44,262.52	538.46	21.54	5.67
Point Edward	291,895.22	25,084.58		316,979.80	576.45	23.06	6.07
Port Burwell	7,444.63	1,223.04	7,445.35	16,113.02	35.14	1.41	.37
Port Colborne	466,318.43	40,722.27	2,115.69	509,156.39	.,		
Port Credit	232,441.30	49,634.86		282,076.16	6,295.35	251.81	66.29
Port Dalhousie	151,928.61	12,695.20		164,623.81			
Port Dover	117,349.69	12,085.14	16.89	129,451.72			
Port Elgin	81,701.24	8,545.45		90,246.69		* * * * > * * *	******
Port Hope	401,223.29	47,914.47	600.42	449,738.18			* * * * * * * * * *
Port McNicoll	48,049.11	6,111.75		54,160.86	600.19	24.01	6.32
Port Perry	78,081.17	7,954.49		86,035,66			. , , , , , , , ,
Port Rowan	27,326.03 146,950.72	2,210.19 9,104.55	65.73	29,536.22 156,121.00	35,834.76	1,433.39	377.34
Prescott	218,652.69 862,181.55	22,746.13 63,392.24	4,980.71	241,398.82 930,554.50	83,764.49	3,350.58	882.04
Preston	3,690.63	345.97	4,900.71	4,036.60	00,101,10		002.04
Priceville	33,169.60	2,336.05		35,505.65	134.85	5.39	1.42
Queenston	25,886.27	2,246.97		28,133.24	********		* > * , * * * * *
Renfrew	90,361.44	16,491.94		106,853.38	, , , , , , , , ,	9 3 9 4 7 7 7 4	
Richmond	18,310.06	2,326.22		20,636.28			
Richmond Hill	148,571.49	36,391.90	4,850.71	189,814.10			
Ridgetown	143,574.62	11,128.63	269.45	154,972.70	1,566.95	62.68	16.50
Ripley	29,840.69	2,426.11		32,266.80			, ,
Riverside	354,145.03	35,497.46		389,642.49		********	
Rockland	9,603.27	3,483.17		13,086.44	510,92	20.44	5.38
Rockwood	39,745.50	3,301.93		43,047.43 52,304.96	318.14	12.73	3.35
Rodney	48,294.24 13,070.14	4,010.72 885.58		13,955.72	310.14	12.73	
	20,924.50	1,819.49		22,743.99			
Russell	3,088,098.95	287,440.58		3,375,539.53			
St. Catharines St. Clair Beach	28,695.96	3,396,44		32,092.40			
		1			544.16	21 77	5.73
	46,408.63	3,595.27		50,003.90	344,10	21.77	
St. George St. Jacobs	46,408.63 59,662.08	3,595.27 4,461.97		50,003.90 64,124.05	913.58	36.54	9.62

SOUTHERN ONTARIO SYSTEM

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1958

(continued)

	Net amount municipality to sinking funds p	paid as part of ogether with provided out of the interest al	oportionate : evenues of t	share of other			
Municipality		Net provision and interest	Sinking fund equity acquired		Matured portion of sinking fund	Reduction cost of por matured sin	wer from
	Balance Jan. 1, 1958	credited during year	through annexation	Balance Dec. 31, 1958	January 1, 1958	Interest	Provision
	<i>a</i>	\$	\$	\$	\$	\$	\$
	\$ 409,813.16	47,618.90		457,432.06	67,900.28	2,716.01	714.99
St. Mary's	1,605,579.86	105,115.88	166.33	1,710,862.07	224,596.39	8,983.86	2,365.00
St. Thomas	69,840.70	25,135.05	66,390.85	161,366.60			
Sandwich West Twp	101,718.94	38,623.58	72,910.06	213,252.58			
Sarnia	2,545,953.35	280,911.51	23,218.89	2,850,083.75	13,317.19	532.69	140.23
Sarma	2,010,700,00						
Scarborough Twp	2,227,577.76	508,849.20	106,764.17	2,843,191.13			
Seaforth	196,911.03	7,991.99		204,903.02	112,225.07	4,489.00	1,181.73
Shelburne	75,785.24	6,591.93	437.58	81,939.59			
Simcoe	454,536.93	45,177.92	2,835.89	502,550.74	1,662.87	66.51	17.51
Smith's Falls	454,709.43	43,123.00	781.71	498,614.14			
		2 4 7 2 7 0		20 644 69			
Smithville	26,470.89	3,173.79		29,644.68 86,089.44			
Southampton	78,125.11	7,964.33		29,808.21	312,44	12.50	3.29
Springfield	27,885.13	1,923.08		631,611.50	5,223.17	208.93	55.00
Stamford Twp	553,460.11 68,535.40	78,151.39 6,726.53		75,261.93	2,477.68	99.11	26.09
Stayner	00,333.40	0,720.55		70,20277			
Stirling	47,475.26	4,853.28		52,328.54			
Stoney Creek	57,710.12	15,517.15		73,227.27			
Stouffville	87,634.09	10,606.87		98,240.96			
Stratford	1,830,663.93	121,143.93	142.44	1,951,950.30	180,415.95	7,216.64	1,899.78
Strathroy	312,299.03	24,882.51		337,181.54	3,818.61	152.74	40.21
				WE 040 45			
Streetsville	61,708.80	13,303.65		75,012.45			
Sunderland		3,028.02		38,505.90 7,144.60			
Sundridge		1,638.92	32.44	84,080.34			
Sutton	76,495.54 401,042.01	7,552.36 37,503.08	32,44	438,545.09			
Swansea	401,042.01	37,303.00		100,010101			
Tara	31,566.78	2,687.76		34,254.54			
Tavistock		9,111.18		155,748.63		115.67	30.45
Tecumseh		9,337.92		117,779.87			
Teeswater		4,377.90		51,718.15			
Thamesford	59,528.83	4,739.95		64,268.78	762.58	30.50	8.03
		F 240 51		60.024.24	476 72	10.07	5.02
Thamesville				69,924.81		19.07	5.02
Thedford		3,167.14 2,958.92	i				
Thornbury			1	30,504.82		24.88	6.55
Thorndale					1	21.00	
I normton	11,101.70	321.07		12,132.00			
Thorold	. 512,746.66	62,701.93		575,448.59			
Tilbury				1			9.16
Tillsonburg				356,616.93	80,594.49	3,223.78	848.66
Toronto	. 63,895,784.20					142,225.38	37,440.83
Toronto Twp	. 1,042,952.88	241,888.09		1,284,840.97	1,750.24	70.01	18.43
	4			60.746.00	74.00	200	70
Tottenham			1				1
Trafalgar Twp							
Trenton							
Uxbridge							
)	, 98,015.82	2		

SOUTHERN ONTARIO SYSTEM

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1958

(concluded)

	municipality t	t paid as part o ogether with po provided out of interest a	roportionate revenues of				
Municipality	Municipality Net provision and interest		Sinking fund equity acquired	fund equity		Reduction made in cost of power from matured sinking fund	
	Balance Jan. 1, 1958	credited during year	through annexation	Balance Dec. 31, 1958	January 1, 1958	Interest	Provision
	\$	\$	\$	\$	\$	\$	\$
Vankleek Hill	6,866.00	2,328.42		9,194.42			
Victoria Harbour	24,315.90	2,190.11		26,506.01	792.02	31.68	8.34
Walkerton	136,867.84 813,690.02	15,313.45 64,561,11		152,181.29 878,251.13	6,265,91	250,64	65.00
Wallaceburg Wardsville	14,924.42	1,316.28		16,240.70	0,205.91	250.04	65.98
Warkworth	17,741.99	1,651.90		19,393.89			
Wasaga Beach	10,625.92	3,063.16		13,689.08			
Waterdown	76,954.87	6,244.20		83,199.07	14,617.28	584.69	153.92
Waterford	106,817.07	7,919.21		114,736.28	1,320.04	52.80	13.90
Waterloo	1,042,054.54	87,814.03	1,527.50	1,131,396.07	75,370.37	3,014.81	793.65
Watford	94,084.30	8,235.76		102,320.06	602.09	24.08	6.34
Waubaushene	20,893.59	2,037.78		22,931.37	577.40	23.10	6.08
Welland	1,279,454.28	97,967.78	1,294.50	1,378,716.56	70,649.57	2,825.98	743.94
Wellesley	49,048.30 46,672.94	3,514.63 4,179.67		52,562.93 50,852.61	1,584.05	63.36	16.68
West Lorne	. 97,326.45	8,300.84		105,627.29	329.53	13.18	3.47
Weston	858,166.01 24,885,26	63,296.97 2,370.07		921,462.98 27,255.33	78,150.05	3,126.00	822.92
Westport	61.661.62	5.854.87		67,516,49			
Whitby	293,574.07	47,582.97	2,749.46	343,906.50			
Wiarton	78.043.25	8,102.31		86,145.56			
Williamsburg	22,063.14	1,882.70		23,945.84			
Winchester	81,623.87	7,939.03		89,562.90			
Windermere	11,357.56	929.46		12,287.02			
Windsor	10,324,431.26	706,138.48		11,030,569.74	50,120.61	2,004.82	527.77
Wingham	162,054.10	14,660.39		176,714.49			
Woodbridge	151,384.03	14,250.54		165,634.57	1,170.94	46.84	12.33
Woodstock	1,488,376.90	119,223.25	4,811.98	1,612,412.13	94,615.38	3,784.62	996.30
Woodville	30,075.59 31,942.07	2,126.26 2,791.14		32,201.85 34,733.21	323.84	12.95	3.41
		·					
York TwpZurich	3,435,586.27 44,686.03	363,128.23 3,305.53		3,798,714.50 47,991.56	627.73	25.11	6.61
Total—Municipalities	198,640,348.50	18,218,873.31	622,766.61	217,481,988.42	7,890,072.15	315,602.93	83,082.46
Rural Power District	32,972,207.63	4,375,602.54	622,766.61	36,725,043.56	7,890,072.13	313,602.93	83,082.40
Administrative and service buildings and equipment	2,984,348.77	303,146.25		3,287,495.02	802,171.00	32,086.84	8,446.86
			-				
GRAND TOTAL	234,596,904.90	22,897,622.10		257,494,527.00	8,692,243.15	347,689.77	91,529.32

\$23,336,841.19 . 439,219.09

Less credits resulting from matured sinking funds.....

\$22,897,622.10

NORTHERN ONTARIO

FIXED

Statement Showing Changes During

	State	ement showing	
			In
			Changes
Property	Balance January 1, 1958	Placed in service	Equipment relocated and reclassified
Power System Hydro-Electric Generating Stations NORTHEASTERN DIVISION	\$	\$	\$
Abitibi River Abitibi Canyon Otter Rapids	19,260,579	10,929	5,326
Mississagi River George W. Rayner Red Rock Falls	18,495,307	14,578	
Other Properties.	22,199,229 59,955,115	1,014,014 1,039,521	28,498 33,824
NORTHWESTERN DIVISION Nipigon River Pine Portage. Cameron Falls. Alexander.	31,969,582 10,496,133 7,730,906	2,283 4,956,356 3,697,233	
Aguasabon River Aguasabon English River	12,665,198	3,953 23,233,035	
Čaribou Falls	13,611,227	23,233,033 1,738,000 20,885,635	30,000
Kaministikwia River Silver Falls Other properties	10,809,446	400,732	30,000
THERMAL-ELECTRIC GENERATING STATIONS	87,282,492	54,917,227	
NORTHEASTERN DIVISION	380,751		
Total generating stations	380,751 147,618,358	55,956,748	33,824
Transformer Stations Northeastern Division Northwestern Division	18,356,049 7,658,557	4,805,330 1,791,443	80,948 69,419 11,529
Total transformer stations Transmission Lines Northeastern Division	26,726,907	6,734,680	
Northwestern Division	27,622,284 54,349,191	2,162,767 8,897,447	29,280 29,280
Local Systems Northeastern Division Northwestern Division	3,138,975	187,180 63,266	99,074 16,810
Total local systems	3,660,881 3,590,514	250,446 225,810	115,884
Total power system	235,233,550	71,927,224	99,811

PROPERTIES

ASSETS

Year 1958 and Balances at December 31, 1958

service				
during year				
Sales and retirements	Balance December 31, 1958	Under construction December 31, 1958	Total fixed assets December 31, 1958	Expenditure during 1958
\$	\$	\$	\$	\$
3,161	19,263,021	1,001,931 3,044,042	20,264,952 3,044,042	800,042 3,044,042
4,386	18,505,499	18,464 3,738,053	18,523,963 3,738,053	15,353 3,738,053
11,296	23,173,449	464,213	23,637,662	984,344
18,843	60,941,969	8,266,703	69,208,672	8,581,834
1,195 6,563	31,970,670 15,445,926	276 10,222	31,970,946 15,456,148	388 1,922,552
7,172	11,435,311	14,091	11,449,402	631,981
1,650	12,667,501	3,347	12,670,848	615
	23,233,035 15,349,227	49,710 155,407	23,282,745 15,504,634	6,978,693 557,078
	20,915,635	337,961	21,253,596	2,309,668
5,166	11,175,012	11,445,025 135,065	11,445,025 11,310,077	6,715,215 158,420
7,402	142,192,317	12,151,104	154,343,421	19,274,610
	380,751		380,751	
		3,808,899	3,808,899	3,568,645
	380,751	3,808,899	4,189,650	3,568,645
26,245	203,515,037	24,226,706	227,741,743	31,425,089
181,603 24,226	22,898,828 9,495,193	791,457 400,959	23,690,285 9,896,152	3,592,800 1,491,214
205,829	32,394,021	1,192,416	33,586,437	5,084,014
152,783 310,135	33,308,804 29,504,196	359,326 1,153,832	33,668,130 30,658,028	3,300,434 2,184,256
462,918	62,813,000	1,513,158	64,326,158	5,484,690
54,672 6,588	3,370,557 595,394	153,838 23,838	3,524,395 619,232	239,842 81,933
61,260	3,965,951	177,676	4,143,627	321,775
111,861	3,704,463	236,818	3,941,281	208,378
868,113	306,392,472	27,346,774	333,739,246	42,523,946

NORTHERN ONTARIO

FIXED

Statement Showing Changes During

			In
			Changes
Property	Balance January 1, 1958	Placed in service	Equipment relocated and reclassified
Administrative and Service Buildings and Equipment	\$	\$	\$
BUILDINGSOffice and Service Equipment	1,573,081 623,566	341,229 76,328	68,239
Total administrative and service buildings and equipment	2,196,647	417,557	68,239
Rural Power District	32,893,954	3,441,898	168,050
Total fixed assets	270,324,151	75,786,679	
Changes in Assets U			
Under construction at January 1, 1958 Expenditures during 1958		,	\$ 57,309,91 46,307,05
			\$ 103 616 96

Less—Placed in service during 1958. \$ 103,616,967 75,786,679

PROPERTIES

ASSETS

Year 1958 and Balances at December 31, 1958

service				
during year . Sales and retirements	Balance December 31, 1958	Under construction December 31, 1958	Total fixed assets December 31, 1958	Expenditure during 1958
\$	\$	\$	\$	\$
9,121 18,095	1,973,428 681,799	201,317	2,174,745 681,799	358,949 76,328
27,216	2,655,227	201,317	2,856,544	435,277
214,044	35,953,758	282,197	36,235,955	3,347,833
1,109,373	345,001,457	27,830,288	372,831,745	46,307,056

Summary of Sales and Retirements During 1958

Charged to frequency standardization	. \$	66,926
Charged to accumulated depreciation		931,838
Proceeds from sales		110,609
	\$	1,109,373

NORTHERN ONTARIO

Accumulated Depreciation December 31, 1958

	Power System	Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1958	\$ 31,903,776	\$ 4,432,347	\$ 434,947	\$ 36,771,070
Interest at 3% per annum on accumulated depreciation required on plant not fully depreciated Provision in the year charged	835,984	157,640	6,860	1,000,484
to operations —direct —indirect	2,409,294	964,801	78,252	3,374,095 78,252
Special allowance charged to Surplus (Note)		761,515		761,515
assets purchased from the Southern Ontario System. Salvage recoveries less re-	303,157	1,159		304,316
moval costs of assets retired	145,452	63,437	8,093	90,108
Adjustments re transfer of equipment	22,226	14,972	37,198	
Deduct:	35,284,533	6,365,927	549,164	42,199,624
Cost of fixed assets retired less proceeds from sales	735,038	197,827	1,027	931,838
Balances at December 31, 1958	34,549,495	6,168,100	550,191	41,267,786

Note—The special allowance of \$761,515 is required to reflect, as at January 1, 1958, a reduction in the life expectancy of Rural Power District distribution and other facilities indicated by a study of retirement experience completed during the year. The regular provision for 1958 is based on revised rates determined from this study.

Exchange Discount and Premium on Funded Debt, December 31, 1958

	Discount	Premium
Exchange discount and premium on funded debt issued in United	\$	\$
States funds: Balances at January 1, 1958 Less discount and premium on bonds redeemed during year 1958		177,099 610
Balances at December 31, 1958	164,093	176,489

Frequency Standardization Account, December 31, 1958

	\$	\$
Balance at credit at January 1, 1958 Expenditures for frequency standardization work completed during year. Less industrial customers' contributions	4,352,680 45,758	283,710
Less portion of cost charged to cost of power for the year	4,306,922 283,572	4,023,350
Balance at debit at December 31, 1958		3,739,640

PROPERTIES

Reserve for Stabilization of Rates and Contingencies, December 31, 1958

	Power System	Rural Power District	Sub-total	Nuclear research	Total
Balances at January 1, 1958 Add: Interestforyearonreserve balances		\$ 297,456	\$ 18,425,801	\$	\$ 18,425,801
(Note 1)	667,151 829,732	10,882	678,033 829,732	563,707	678,033 1,393,439
debt and sale of investments, net	152,703		152,703		152,703
Deduct:	19,777,931	308,338	20,086,269	563,707	20,649,976
Expenditure during year Withdrawal in the year applied in reduction of cost of power to Thunder Bay cost-contract municipalities in the North-				141,660	141,660
western Division	72,395		72,395		72,395
Balances at December 31, 1958 (Note 2)	19,705,536	308,338	20,013,874	422,047	20,435,921

Note 1—Interest for the year on the reserve balances was credited at 3.57% for the period January to August and 3.91% for the period September to December, 1958, which approximated the actual earnings on the investments held for these reserves.

Sinking Fund Reserve, December 31, 1958

	Pro	vince of Onta	Municipalities supplied with power at cost		
	40-year basis	Prepaid sinking funds	Total	40-year basis	Total
Balances at January 1, 1958 Add:	\$ 28,804,641	\$ 13,275,423	\$ 42,080,064	\$ 11,606,195	\$ 53,686,259
Interest at 4% per annum on reserve balances Provision in the year	1,152,186	,			2,147,450
—direct—indirect	19,799				19,799
Deduct credits resulting from prepaid and matured sinking funds (see note):	32,762,195	13,806,440	46,568,635	12,375,490	58,944,125
Interest	15,454 4,069	531,017 171,189	546,471 175,258		546,471 175,258
	19,523	702,206	721,729		721,729
Balances at December 31, 1958	32,742,672	13,104,234	45,846,906	12,375,490	58,222,396

Note: The matured sinking funds at January 1, 1958 amounted to \$386,361.

Note 2—The balance of \$19,705,536 at the credit of the Power System reserve at December 31, 1958 includes an amount of \$2,316,274 held specifically for the benefit of those municipalities in the Northwestern Division which were supplied with power at cost in the former Thunder Bay System at January 1, 1952, the date on which that system was merged with the Northern Ontario Properties.

NORTHERN ONTARIO STATEMENT OF THE ALLOCATION

for the Year

	Power an supplied do (principa of cost al	uring year al bases	Cost of			
Municipalities supplied with power at cost	Average of monthly peak loads (Note 1)	Energy	Power purchased, operating costs, and net fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)	
Atikokan Twp. Dryden. Fort William. Nipigon Twp. Port Arthur. Red Rock. Schreiber Twp. Terrace Bay.	kw 3,342.2 1,926.2 30,995.6 1,414.9 37,099.7 766.3 987.6 1,131.3	megawatt hours 17,367.0 12,155.6 194,263.8 7,552.0 186,121.9 3,898.8 5,301.6 6,939.2	\$ 131,894.19 79,658.45 1,015,079.78 42,500.12 1,120,126.36 22,445.71 28,103.09 32,958.67	\$	\$ 5,421,49 3,240.81 52,077.33 2,305.97 59,819.87 1,238.53 1,611.21 1,892.57	
Total—Municipalities	77,663.8	433,599.9	2,472,766.37		127,607.78	
Province of Ontario Rural Power District Other customers Secondary customers	56,005.4 696,063.1	297,191.7 4,461,287.1 202,473.5	5,685,790.08 24,924,569.94	28,002.70 348,032.05	89,868.32 1,175,962.90	
Total—Province of Ontario	752,068.5	4,960.952.3	30,610,360.02	376,034.75	1,265,831.22	
GRAND TOTAL	829,732.3	5,394,552.2	33,083,126.39	376,034.75	1,393,439.00	

Notes on Allocation of Cost of Power

NORTHERN ONTARIO PROPERTIES

1. The average monthly peak load supplied in the year represents primary power only. Secondary energy appears separately on the above statement.

2. The total of \$33,083,126 shown under the heading "Power purchased, operating costs and net fixed charges" includes the following items of cost shown in the Statement of Operations:

Cost of power purchased	607,086
Cost of power purchased	12.743,808
Operation, maintenance and administrative expenses	10 944 303
Interest	3,374,095
Depreciation	3,090,617
Sinking fund provision	3,509,062
Interchange of power with Southern Ontario System	464.116
Sale of secondary energy	,
Credit resulting from prepaid and matured sinking funds	- ,
. \$	33,083,126

The method used in 1957 of allocating the cost of power supplied to each customer was followed in 1958. However, in the Northwestern Division bulk transmission costs which apply only to the Patricia and Rainy River Districts were pooled in 1958, while in 1957 only a portion of such costs were pooled, the balance being costed separately for each District.

Interchange of power, \$3,509,062, represents the cost of 1,099,669 megawatt-hours of energy

transferred from the Southern Ontario System.

Revenue from the sale of secondary energy, \$464,116, and related costs \$161,484, have in 1958 been taken into account in determining the cost of power, and costs to all customers have accordingly been reduced by the net revenue of \$302,632. In 1957 and prior years such revenue and the related costs were included in amounts billed and costs allocated to other customers served for the account of the Province of Ontario. The net revenue from the sale of secondary energy in 1958 was as follows:

	raper	Oinei	
	Companies	Customers	Total
Gross revenue	\$232,447	\$231,669	\$464,116
Less costs related thereto	43,491	117,993	161,484
Net revenue	\$188,956	\$113,676	\$302,632
14CC TCVCHuci TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT			

The credit of \$721,729 resulting from prepaid and matured sinking funds consists of a principal amount of \$175,258 and interest at 4 per cent amounting to \$546,471 applicable to prepaid and matured sinking funds aggregating \$13,661,785 at the beginning of the year.

PROPERTIES

OF THE COST OF POWER

ended December 31, 1958

power					il rates on vatt basis
Withdrawal from stabilization of rates reserve . (Note 5)	Total cost of power	Amounts billed (municipalities at interim rates)	Balance credited or charged	Interim	Actual
\$	\$	\$	\$	\$	\$
	137,315.68	133,687.00	3,628.68	40.00	41.09
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	82,899.26	82,828.38	70.88	43,00	43.04
30,995,60	1,036,161.51	1,038,353.43	2,191:92	33.50 ·	33,43
1,414.90	43,391.19	48,814.62	5,423.43	34.50	30.67
37,099.70	1,142,846.53	1,168,638.97	25,792.44	31.50	30.80
766.30	22,917.94	24,599.32	1,681.38	32.10	29,91
987.60	28,726.70	32,591.35	3,864.65	33,00	29.09
1,131.30	33,719.94	37,333.74	3,613.80	33.00	29.81
72,395.40	2,527,978.75	2,566,846.81	38,868.06		
	5,803,661.10	5,577,341.00	226,320.10		
	26,448,564,89	27,109,678.74	661.113.85		
		27,137,076.74			
	32,252,225.99	32,687,019.74	434,793.75		
72,395.40	34,780,204.74	35,253,866.55	473,661.81		

3. Frequency standardization costs are shown in the Statement of Operations as follows:

Interest		\$ 92,463
Portion of cost written off	· · · · · · · · · · · · · · · · · · ·	283,572

This represents a charge of 50 cents per kilowatt on the average monthly peak load supplied to all customers served on behalf of the Province of Ontario.

4. The provision for stabilization of rates and contingencies consists of:

General provision	\$ 829,732 563,707
_	\$1,393,439

The general provision represents a charge of \$1.00 per kilowatt on the average monthly peak load supplied to all customers.

The provision for nuclear research was charged to all customers on the basis of 50 per cent on the quantity of energy supplied and 50 per cent on average monthly peak loads. It represents the Northern Ontario Properties' share of a total provision of \$3,000,000 charged to the Southern Ontario System and the Northern Ontario Properties in proportion to their average monthly peak loads.

5. The withdrawal from the stabilization of rates reserve of \$72,395 represents \$1 per kilowatt on the average monthly peak load of cost-contract municipalities in the Northwestern Division formerly served by the Thunder Bay System. This withdrawal was credited to these municipalities and charged against that portion of the reserve held specifically for them.

NORTHERN ONTARIO PROPERTIES

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1958

	Net amount paid as part of cost of power by each municipality and other sinking funds provided out of revenues of the system and interest allowed				
Municipality	Balance at January 1, 1958	Net provision and interest credited during year	Balance at December 31, 1958		
Atikokan Twp. Dryden Fort William Nipigon Twp Port Arthur Red Rock Schreiber Twp Terrace Bay.	\$ 20,791.52 36,701.97 3,940,915.16 71,553.34 7,424,818.75 25,582.19 31,141.96 54,689.57	\$ 15,724.42 10,531.11 284,711.52 8,040.27 435,612.74 3,492.00 4,775.40 6,407.95	\$ 36,515.94 47,233.08 4,225,626.68 79,593.61 7,860,431.49 29,074.19 35,917.36 61,097.52		
Total—Municipalities Province of Ontario	11,606,194.46 42,080,064.23	769,295.41 3,766,841.61	12,375,489.87 45,846,905.84		
GRAND TOTAL	53,686,258.69	4,536,137.02 (See note)	58,222,395.71		

Note: The net provision and interest credited during the year consist of the following amounts shown in the statement of the sinking fund reserve:

Interest	 \$2,147,450.35
Provision—direct	
—indirect	

\$5,257,866.35 Less credits resulting from prepaid and matured sinking funds.... 721,729.33

\$4,536,137.02

APPENDIX III—RURAL

POWER is delivered in wholesale quantities by the Commission to 103 rural operating areas in the Rural Power District. Within the areas, retail customers are supplied under the following six classes of service: farm, hamlet residential, rural residential, commercial, summer, and industrial power. The description of these classes of service and the rates applicable to them at December 31, 1958 are included in this appendix.

Description of Main Classes of Service

Farm service means service rendered to a property used for the production of food or industrial crops. It provides for the electrical supply of all farm buildings and equipment located on a farm and used for farm purposes, including equipment required for processing the products of that farm. Service may be supplied under one farm contract to all dwellings or separate domestic establishments located on the farm and occupied by persons engaged in its operation. Additional dwellings or domestic establishments located on a farm property and occupied by persons otherwise engaged are classed as residential service. Small properties of thirty acres and less are classified as residential service unless special circumstances warrant a classification as farm service.

Hamlet residential service is applicable to all domestic establishments in built-up areas where there are six or more customers in any quarter-mile section of road or street.

Rural residential service is applicable to isolated domestic establishments served as part of a rural operating area.

Commercial service applies to a wide variety of business or community establishments such as hotels, offices, stores, churches, schools, or small manufacturing and processing plants. Sign and display lighting is included.

Summer service is applicable to residential properties normally used only during the summer months.

Industrial power service is 3-phase service to such power users as creameries, cheese factories, chopping mills and other industrial establishments.

Rural Power District
INVESTMENT IN FIXED ASSETS AT COST AS AT DECEMBER 31, 1958

System and Region	1957	1958	Net increase or decrease
Southern Ontario System	\$	\$	\$
Western	35,519,307	37,503,542	1,984,235
West Central	31,066,719	30,663,985	402,734
Niagara	3,235,610	9,777,200	541,590
Toronto	13,227,800	14,139,167	911,367
Georgian Bay	40,609,102	43,787,932	3,178,830
East Central	33,249,800	35,962,253	2,712,453
Eastern	28,752,937	30,838,513	2,085,576
Total	191,661,275	202,672,592	11,011,317
Northern Ontario Properties			
Northeastern	23,488,964	25,674,525	2,185,561
Northwestern	9,781,252	10,561,430	780,178
Total	33,270,216	36,235,955	2,965,739
Total—All systems	224,931,491	238,908,547	13,977,056
Provincial assistance	112,084,337	113,538,494	1,454,157

Rural Rate Structure

Rural rates in effect throughout the Province are given in the accompanying tables. They are quoted on a monthly basis, except for summer service, which is quoted on an annual basis. Each contract within each class of service has a rating and the energy used is billed on the basis of a three-step energy rate, except hamlet residential service which has a four-step energy rate, the bill being subject to a monthly minimum, or with respect to summer service, to an annual fixed charge. The number of kilowatt-hours billed at the first and second energy rates and the amount of the minimum monthly bill, or the annual fixed charge, depend on the contract rating. For all contracts with a demand rating (FD, HD, RD, CD, SD, and Industrial Power) these aspects of the bill are based on measured demand and are subject to minima related to demands established in previous billing periods.

For industrial power service there are eight different schedules and these are numbered in the following table. The alphabetical list of the 103 rural operating areas on page 174 indicates the schedule number of the power service rate applicable to each area, as at December 31, 1958.

Rural Power District RATES AND TYPICAL BILLS FOR ELECTRICAL SERVICE as at December 31, 1958

Rates are quoted on a monthly basis for all services except summer service, which are quoted on an annual basis. All are subject to 10% prompt payment discount.

		umber of kilowatt-hours per month billed at uniform kwh rate shown			ım bill onth	Net monthly bill for		
Class and rating	4.5¢	2.6¢	1.1¢	1.5¢	Minimum bill per month (gross)	100 kwh	300 kwh	500 kwh
Farm				1	\$	\$	\$	\$
F35	60	180		All additional	2.25	3.37	7.45	10.15
F50	100	300		6.6	3.75	4.05	8.73	12.42
FD	10*	30*		, eș	.40*		8.73†	12.42†
Hamlet Residential								
H20	60	80	500	All additional	1.67	3.37	5.89	7.87
H35	60	180	500	6.6	2.25	3.37	7.24	9.22
H50	80	300	500	6.6	3.75	3.71	8.39	11.45
HD	10*	30*	500	4.6	.40*		8.73†	12.06†
Rural Residential								
R20	60	80		All additional	1.67	3.37	6.46	9.16
R35:	60	180		6.6	2.25	3.37	7.45	10.15
R50	80	300		4.6	3.75	3.71	8.39	11.88
RD	10*	30*		6.6	.40*		8.73†	12.42†
Commercial								
C20	60	120		All additional	1.50	3.37	6.86	9.56
C35	90	180		6.6	2.25	3.88	8.26	10.96
C50	150	300		6.6	3.75	4.05	9.58	13.77
CD	15*	30*		6.6	.40*		9.58†	13.77†
Summer								
S20	150§	450§		All additional	16.67‡	4.05§	9.58	14.26§
S35	225§	675§		4.6	22.22‡	4.05§	10.87§	15.55§
S50	375§	1,125§		6.6	25.00‡	4.05§	12.15§	18.12§
SD	40§*	120§*		6.6	2.50*‡		12.15§†	18.54§†

§!On annual basis ‡.Gross annual fixed charge

Industrial Power

				Energy rate per kwh for							
Schedule	No. of kwh in first block	No. of kwh in second block	Demand rate per kw	First block of kwh	Second block of kwh	All additional kwh	100 hours	200 hours	300 hours		
			\$	é	¢	é	\$	\$	\$		
1	50*	50*	1.35	2.3	1.5	0.33	2.92	3.22	3.52		
2	50*	50*	1.35	2.6	1.7	0.33	3.15	3.45~	3.74		
3	50*	50*	1.35	2.8	1.8	0.33	3.28	3.58	3.88		
4	50*	50*	1.35	3.1	2.0	0.33	3.51	3.81	4.10		
5	50*	50*	1.35	3.4	2.2	0.33	3.73	4.03	4.33		
6	50*	50*	1.35	3.7	2.4	0.33	3.96	4.26	4.55		
7	50*	50*	1.35	4.0	2.6	0.33	4.18	4.48	4.78		
8	50*	50*	1.35	4.6	3.0	0.33	4.63	4.93	5.23		

^{*} per kw of demand

^{*} Per kw of demand † Calculated on basis of minimum demand of 10 kw

Rural Operating Areas

and

Industrial Power Service Schedules in Effect

Rural operating area	Schedule	Rural operating area	Schedule	Rural operating area	Schedule
Algoma	8 5 4 5 4	Harrow Huntsville Ingersoll Kapuskasing Kenora	6 5 4 6 8	Peterborough Picton Plantagenet Port Arthur Richmond Hill	1 5 4 5 4
Bancroft	7 5 4 4 5	Kingston Kingsville Kirkland Lake Kitchener Lakefield	4 5 6 4 4	Ridgetown St. Catharines St. Thomas Sarnia Shelburne	6 3 5 5 5
Bowmanville Bracebridge Brampton Brantford Brockville	4	LancasterListowelLondonLucanManitoulin	4 4 4 5 8	Simcoe	4 8 4 2 4
CanningtonCayugaChathamClintonCobden	6 4 5	Markdale Markham Matheson Merlin Merrickville	4 4 6 6 4	Stratford. Strathroy. Sudbury. Sutton. Terrace Bay.	6 5
Cobourg Delta Dorchester Dryden Dundas	5 8	Minden Mitchell Napanee New Liskeard North Bay	5 4 6	Tillsonburg Tweed Uxbridge Vankleek Hill Walkerton	5 5 4
Dunnville Elmira Essex Exeter Fenelon Falls	4 6 5	Norwood	6 6 3	Wallaceburg	6 1 6
Forest	. 8 . 4 . 8	OttawaOwen SoundParry SoundPenetanguishene.Perth	5 5 5	Windsor	5 5

	1								
		Number of customers							
Rural operating areas by regions	Miles of primary		Resid	ential		Sum	ımer		
areas by regions	line	Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
Southern Ontario System									
WESTERN Aylmer. Blenheim. Chatham. Dorchester. Essex.	336.38 141.40 331.25 207.04 305.76	1,587 658 1,415 849 1,535	188 137 328 161 164	943 395 2,552 680 1,272	226 114 338 164 192	10 14 12	135 240 2 646	7 9 39 15 20	3,096 1,567 4,672 1,871 3,841
ExeterForestHarrowIngersollKingsville.	273.26 337.27 248.55 300.83 291.09	1,195 1,391 1,388 1,063 1,847	51 73 103 101 101	326 218 1,187 404 1,534	133 138 172 104 284	12 39 23 2 66	476 940 1,463 27 1,259	12 6 20 3 42	2,205 2,805 4,356 1,704 5,133
London Lucan Merlin Oil Springs Ridgetown	392.71 377.64 394.91 360.22 369.01	1,183 1,435 1,644 1,475 1,411	183 67 174 58 160	12,913 156 408 244 451	896 113 234 197 188	4	380 638	128 5 18 26 9	15,331 1,776 2,862 2,000 2,881
St. Thomas Sarnia Strathroy Tillsonburg Wallaceburg	314.46 286.26 516.98 461.65 463.12	1,234 1,192 1,958 1,949 1,791	232 135 206 351 280	1,835 2,401 643 1,030 1,245	267 335 265 307 328	8	10 515 347	11 10 9 27 20	3,589 4,596 3,081 3,664 4,012
West Lorne Windsor Woodstock	498.97 71.88 226.53	1,807 275 895	103 66 73	260 767 749	200 100 166		59	12 10 13	2,441 1,218 1,896
Total	7,507.17	31,177	3,495	32,613	5,461	215	7,165	471	80,597
West Central Brantford Cayuga Clinton Dundas Elmira	555.59 526.93 662.04 380.14 491.32	2,225 1,967 2,535 1,779 1,664	420 265 112 255 198	795 771 808 3,862 1,096	311 274 343 339 280	4 20 6	13 1,413 780 2 227	5 26 10 30 24	3,773 4,736 4,594 6,267 3,503
Guelph Kitchener Listowel Mitchell Simcoe	386.70 481.51 616.66 552.44 796.24	1,347 1,708 2,620 2,404 3,454	250 272 97 97 790	1,337 2,325 586 551 2,300	200 420 320 257 505	1 1 43	17 170 9 1,593	9 40 13 16 19	3,160 4,936 3,646 3,325 8,704
Stoney Creek Stratford	315.22 302.33	1,166 1,281	204 107	6,214 600	549 175	1	141	55 12	8,330 2,175
Total	6,067.12	24,150	3,067	21,245	3,973	90	4,365	259	57,149

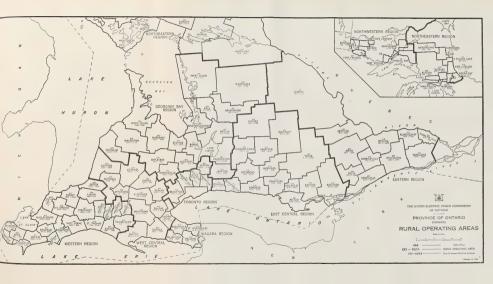
				NT	mhor of	customer	·c		
	Miles of		Resid		inber or	Sum			
Rural operating areas by regions	primary line		Resid	entiai	Com-	Com-			
		Farm	Rural	Hamlet		mercial	Other	Power	Total
SOUTHERN ONTARIO SYSTEM (continued)									
NIAGARA Beamsville Dunnville St. Catharines Welland	365.63 276.97 292.24 466.55	2,125 1,078 1,518 1,383	253 237 206 478	669 9,458	380 229 633 785	43	87 1,145 239 781	78	4,918 3,415 12,137 10,809
Total	1,401.39	6,104	1,174	19,429	2,027	77	2,252	216	31,279
Toronto									
Brampton Markham Richmond Hill Sutton Woodbridge	542.98 284.49 306.41 345.39 403.50	1,785 981 987 1,004 1,293	704 387 259 255 564	4,049 6,822 2,693	418 645 372	25 3 105	175 501 201 3,207 88	28 74 18	5,225 6,389 8,991 7,654 5,360
Total	1,882.77	6,050	2,169	18,477	2,357	149	4,172	245	33,619
Georgian Bay Alliston	484.55	1,931							
Bala	225.49 510.54 475.84 486.95	1,463 305	483 420	3 2,497	435	76	3,597 3,043	$\begin{bmatrix} 22 \\ 4 \end{bmatrix}$	8,573 4,922
Huntsville Markdale Orangeville Orillia Owen Sound	642.40 502.51 588.18	2,212 1,363 975	163 36 41	694 6 1,228 9 2,13	30: 33: 33: 44:	5 8 9 8 115	560 455 3,722	0 7 5 9 2 12	3,942 3,768 7,826
Parry Sound Penetanguishene Shelburne Stayner Uxbridge	534.46 727.13 359.15	973 2,384 1,165	3 7 16 16 13	9 1,15 0 24 0 1,10	5 1 22 8 24	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,144 54 3,13	4 4 7	7,730 3,066 5,998
Walkerton Wingham	847.90								5,215 4,402
Total	9,550.49	24,67	4,64	7 18,01	5,01	6 1,244	34,93	6 16	88,692

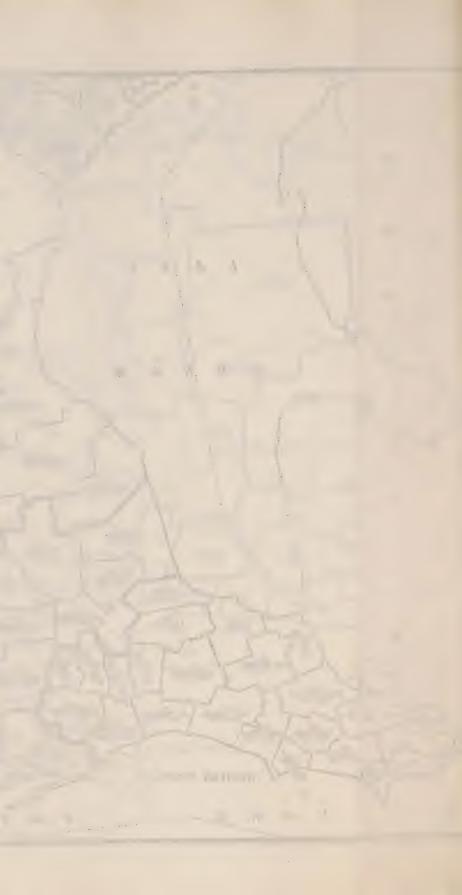
				Nu	mber of	custome	rs		
Rural operating areas by regions	Miles of primary line	primary		Residential		Summer			
	me	Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
Southern Ontario System (concluded)									
EAST CENTRAL Bancroft Belleville Bowmanville Cobourg Fenelon Falls	424.53 241.82 312.92 589.62 526.47	573 818 961 1,679 1,052	252 184 220 431 89	1,151 3,011 925 1,301 738	205 331 218 342 259	38 2 26 70 141	1,168 57 105 1,000 3,253	23 11 13	3,392 4,426 2,466 4,836 5,543
Frankford Kingston Lakefield Minden Napanee	575.54 835.19 415.37 475.27 570.19	1,952 2,056 548 354 1,920	361 515 193 295 252	1,216 3,935 609 1,241 1,161	327 692 179 321 391	27 26 80 137 35	455 1,448 2,615 3,189 393	37	4,347 8,709 4,224 5,542 4,163
Norwood Oshawa Peterborough Picton Tweed	374.15 281.77 649.82 461.16 588.82	874 875 1,782 1,743 1,110	153 345 368 339 506	340 2,692 2,191 1,332 743	122 312 419 300 325	30 5 60 43 101	1,092 197 1,229 720 861	5 22 23 16 3	2,616 4,448 6,072 4,493 3,649
Total	7,322.64	18,297	4,503	22,586	4,743	821	17,782	194	68,926
Eastern Arnprior Brockville Cobden Delta Lancaster	422.09 599.15 1,131.55 458.10 595.48	1,000 -2,094 2,393 1,011 2,226	159 440 602 227 440	1,022 2,002 3,068 577 1,406	277 442 774 252 464	38 39 99 51 7	1,319 951 1,080 1,253 312	18 23 29 3 30	3,833 5,991 8,045 3,374 4,885
Merrickville Ottawa Perth Plantagenet Vankleek Hill	270.45 747.60 825.13 376.48 220.74	772 2,414 1,872 1,529 919	134 675 341 149 83	561 6,952 654 760 479	135 752 353 333 186	2 11 39 5	187 408 1,700 81 75	6 70 6 17 14	1,797 11,282 4,965 2,869 1,761
Winchester	808.71	3,305	315	1,520	573	4	35	32	5,784
Total	6,455.48	19,535	3,565	19,001	4,541	295	7,401	248	54,586

	Number of customers								
	Miles of		Resid			Sum			
Rural operating areas by regions	primary line	Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
NORTHERN ONTARIO PROPERTIES NORTHEASTERN Algoma Kapuskasing Kirkland Lake	287.95 218.54 93.99	368 530 80 835	195 173 63 244	138	278 61	37 4 15 71	237 225 297 771		5,178 3,201 656 3,857
Manitoulin Matheson New Liskeard	574.42 540.19 598.20	1,076 1,207	249	1,208	275	6	317	14	3,145
New Liskeard North Bay Sudbury Warren	777.61 623.35 479.60	1,098 829	704 828 243	3,023 10,979	948		1,182 1,172 673	79 11	3,608
Total	4,193.85	7,033	3,053	24,476	4,063	404	5,243	258	44,530
Northwestern Dryden Fort Frances Geraldton Kenora Port Arthur	277.58 518.80 103.04 253.66 854.18	939	264 17	501 494 579	279 160 166	40 8 121	85 8 799	3 15 10	2,080
Sioux Lookout Terrace Bay	23.49 26.05		64	62 406			61	1 6	220 497
Total	2,056.80	3,325	1,574	4,486	1,271	219	2,295	55	13,225

SUMMARY—MILES OF LINE, NUMBER OF CUSTOMERS as at December 31, 1958

			Number of customers						
	Miles of		Resid	ential	,	Summer			
System and Region	primary line	Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
Southern Ontario System									
Western West Central Niagara Toronto Georgian Bay East Central	7,507.17 6,067.12 1,401.39 1,882.77 9,550.49 7,322.64 6,455.48	31,177 24,150 6,104 6,050 24,672 18,297 19,535	3,495 3,067 1,174 2,169 4,647 4,503 3,565	21,245 19,429 18,477 18,010 22,586	3,973 2,027 2,357 5,016 4,743	90 77 149 1,244 821	7,165 4,365 2,252 4,172 34,936 17,782 7,401	259 216 245 167 194	80,597 57,149 31,279 33,619 88,692 68,926 54,586
Total	40,187.06	129,985	22,620	151,361	28,118	2,891	78,073	1,800	414,848
Northern Ontario Properties Northeastern Northwestern	4,193.85 2,056.80		3,053 1,574						44,530 13,225
Total	6,250.65	10,358	4,627	28,962	5,334	623	7,538	313	57,755
Total—All systems	46,437.71	140,343	27,247	180,323	33,452	3,514	85,611	2,113	472,603





Rural Electrical Service 1948 - 1958 CUSTOMERS, REVENUE, AND CONSUMPTION, BY CLASSES OF SERVICE

Class of service	Year	. Revenue	Consump- tion	Customers	Monthly consump- tion per customer	Average cost per kwh
Farm	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	\$ 3,942,730.96 4,508,978.00 7,441,437.92 8,097,710.92 9,017,321.17 11,053,487.41 12,207,502.58 12,915,852.58 13,671,336.65 14,386,097.14 15,159,553.04	kwh 242,273,102 275,946,330 403,018,641 410,722,321 468,478,642 510,783,290 561,672,463 597,063,469 646,557,636 689,975,689 743,639,744	No. 88,754 102,786 114,725 123,434 129,451 133,522 136,013 138,648 139,289 140,604 140,343	kwh 241 240 265 287 309 324 347 362 388 411 441	¢ 1.63 1.63 1.85 1.97 1.92 2.16 2.17 2.16 2.11 2.09 2.04
Hamlet & Rural Residential	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	3,279,149.63 3,552,600.42 5,712,108.72 6,380,808.20 7,253,640.00 9,560,018.46 11,194,393.02 12,734,130.77 14,639,910.88 16,174,554.38 17,732,046.03	185,225,412 200,875,642 302,905,040 314,271,957 366,600,438 430,507,266 510,800,965 592,590,431 709,141,756 803,953,114 931,982,764	85,838 98,453 115,464 124,091 133,193 150,627 160,552 177,398 181,113 196,025 207,570	193 182 202 219 238 253 274 292 330 355 385	1.77 1.77 1.89 2.03 1.98 2.22 2.19 2.15 2.06 2.01 1.90
Commercial (Including Summer Commercial)	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	706,949.62 1,147,167.71 2,083,696.71 2,284,851.74 2,457,032.13 3,385,239.46 3,707,824.28 3,996,936.76 4,444,185.15 4,855,540.79 5,346,040.16	41,665,764 69,458,813 113,039,553 115,121,444 125,932,132 149,120,428 166,176,082 186,698,211 211,082,610 233,114,413 260,338,850	13,489 15,576 17,879 20,110 24,564 28,870 30,403 32,509 33,481 35,179 36,966	272 398 483 505 470 465 467 495 533 566 601	1.70 1.65 1.84 1.98 1.95 2.27 2.23 2.14 2.11 2.08 2.05
Summer	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	722,951.54 855,107.11 1,376,606.36 1,616,368.92 1,826,359.64 1,833,881.12 2,034,199.00 2,214,360.48 2,478,450.51 2,709,831.47 2,943,051.21	24,440,522 28,038,463 32,307,669 36,705,187 40,319,422 34,287,310 38,613,327 40,493,631 40,121,627 50,797,923 55,296,983	31,175 37,536 43,733 49,913 55,159 57,547 62,183 68,600 74,390 79,792 85,611	69 68 66 65 64 51 54 52 54 55 56	2.96 3.05 4.26 4.40 4.53 5.35 5.27 5.47 5.37 5.34 5.32
Power	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	868,667.70 922,265.51 1,429,465.54 1,562,608.29 1,799,924.89 2,147,899.48 2,545,737.21 2,934,852.81 3,402,416.31 3,732,252.41 4,410,317.84	64,376,898 62,692,652 87,983,478 87,692,082 102,608,301 121,310,479 148,176,508 171,202,169 207,252,224 225,748,793 278,005,882	833 944 1,010 1,058 1,170 1,289 1,466 1,681 1,782 2,011 2,113	6,519 5,880 6,433 7,067 7,676 8,222 8,964 9,067 9,975 9,920 11,235	1.35 1.47 1.62 1.78 1.75 1.77 1.72 1.71 1.64 1.65 1.59



APPENDIX IV-LEGISLATIVE

AT the 1958 Session of the Legislative Assembly of the Province of Ontario three Acts respecting The Hydro-Electric Power Commission of Ontario were passed. These Acts are reproduced here in full. The short titles of the Acts are as follows:

The Lake of the Woods Control Board Amendment Act, 1958, Chapter 48.

The Manitoba-Ontario Lake St. Joseph Diversion Agreement Authorization Act, 1958, Chapter 56.

The Power Commission Amendment Act, 1958, Chapter 80.

ACTS

CHAPTER 48

An Act to amend The Lake of the Woods Control Board Act, 1922

Assented to March 27th, 1958. Session Prorogued March 27th, 1958.

HER MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

- 1. Section 2 of *The Lake of the Woods Control Board Act*, 1922 is 1922, c. 21, repealed and the following substituted therefor:

 s. 2, re-enacted re-enacted
 - 2.—(1) The Board called "The Lake of the Woods Control Constitution Board" created by The Lake of the Woods Control Board of Board 1921, c. 10 Act, 1921 (Canada) and by The Lake of the Woods Control (Can. Board Act, 1922 is continued and shall consist of four members and four alternate members who shall be duly qualified engineers and of whom one member and one alternate member shall be appointed by the Governor-General in Council, two members and two alternate members by the Lieutenant-Governor of Ontario in Council, and one member and one alternate member by the Lieutenant-Governor of Manitoba in Council and each of the persons so appointed shall hold office during the pleasure of the Governor-General in Council, the Lieutenant-Governor of Ontario in Council or the Lieutenant-Governor of Manitoba in Council, respectively, and any vacancy on the Board shall be filled by the Governor-General in Council or the Lieutenant-Governor in Council who appointed the person who formerly occupied the vacant appointment.

Voting by

(2) An alternate member is entitled to sit and vote only during the absence of the member for whom he was appointed as alternate.

1922, c. 21, s. 3, cl. b, re-enacted

- **2.**—(1) The second clause *b* of section 3 of *The Lake of the Woods Control Board Act*, 1922 is repealed and the following substituted therefor:
 - (b) To regulate and control the outflow of the waters of Lac Seul so as to maintain the level of the lake between such elevations as the Board may from time to time recommend and which shall be approved by the Governor-General in Council, the Lieutenant-Governor of Ontario in Council and the Lieutenant-Governor of Manitoba in Council, and to regulate and control the flow into Lac Seul through the Lake St. Joseph diversion works at such times as the level of Lac Seul rises above elevation 1169 feet during the months of January and June, above elevation 1168 feet during the months of February, March, April and May and above elevation 1170 feet during the months of July, August, September, October, November and December, or above such higher elevations as are authorized by the Board from time to time.

1922, c. 21, s. 3, cl. *d*, amended

- (2) Clause d of the said section 3 is amended by striking out "and the Lieutenant-Governor in Council may both" in the third and fourth lines and inserting in lieu thereof "the Lieutenant-Governor of Ontario in Council and the Lieutenant-Governor of Manitoba in Council may", so that the clause shall read as follows:
 - (d) To regulate and control the level and flow of such other waters of the watershed of the Winnipeg river as the Governor-General in Council, the Lieutenant-Governor of Ontario in Council and the Lieutenant-Governor of Manitoba in Council may agree to place under the jurisdiction of the said Board. Save and excepting the control and operation of all dams and regulating works extending across the International Boundary and the dam and regulating works across the Canadian channel at Kettle Falls.

1922, c. 21, s. 3, amended (3) The said section 3 is further amended by adding thereto the following subsection:

Interpretation (2) In this section, any reference to water elevations shall be related to mean sea level (Geodetic Survey of Canada. Adjustment previous to that of 1923). Referred to brass cap bench mark Number 988-A, elevation 1183.075.

- 3. Section 5 of *The Lake of the Woods Control Board Act*, 1922 is ^{1922, c. 21,} amended by inserting after "Canada" in the fourth line "and by ^{amended} any Act passed by the Legislature of Manitoba" and by inserting after "Ontario" in the sixth line "or of Her Majesty's Court of Queen's Bench for Manitoba", so that the section shall read as follows:
 - 5. The said Board shall have all the powers necessary for Enforcement effectively carrying out the authority and control vested in it by this Act and by any Act passed by the Parliament of the Dominion of Canada and by any Act passed by the Legislature of Manitoba and any order made by the said Board may be made a rule, order or decree of the Exchequer Court of Canada or of the Supreme Court of Ontario or of Her Majesty's Court of Queen's Bench for Manitoba and shall be enforced in the same manner as any rule, order or decree may be enforced in the court in which such proceeding is taken.
- **4.** Section 9 of *The Lake of the Woods Control Board Act*, 1922 is 1922, c. 21, repealed and the following substituted therefor;
 - 9. The expenses of the Board, including the remuneration Expenses of the members or alternate members of the Board, shall be paid out of such funds as may be appropriated by the Parliament of Canada and the Legislatures of Ontario and Manitoba respectively for paying expenses incurred for the purposes of this Act in such proportions as the Governor-General in Council and the respective Lieutenant-Governors in Council may agree.
- **5.** Subsection 1 of section 10 of *The Lake of the Woods Control* \$\frac{1922, c. 21,}{s. 10, subs. 1,} \ Board Act, 1922 is amended by striking out "Lieutenant-Governor" amended in the second line and inserting in lieu thereof "respective Lieutenant-Governors", so that the sub-section shall read as follows:
 - (1) The Governor-General in Council and the respective Regulations Lieutenant-Governors in Council may make such regulations (including provisions as to what shall constitute a quorum of the Board, and how orders of the Board shall be signed), as they may agree to be necessary for carrying out the provisions of this Act.
- 6. This Act comes into force on a day to be named by the Commence-Lieutenant-Governor by his Proclamation.*
- 7. This Act may be cited as The Lake of the Woods Control Board Short title Amendment Act, 1958.

^{*}Proclaimed in force September 17, 1958.

CHAPTER 56

An Act to authorize the Government of Ontario and The Hydro-Electric Power Commission of Ontario to enter into an Agreement with the Government of Manitoba and The Manitoba Hydro-Electric Board respecting the diversion of certain waters into the Winnipeg River and the power generated from such waters

Assented to March 27th, 1958. Session Prorogued March 27th, 1958.

HER MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario enacts as follows:

Agreement

1. The Government of Ontario, represented by the Minister of Lands and Forests, and The Hydro-Electric Power Commission of Ontario may enter into an agreement substantially in the form set out as the Schedule hereto with the Government of Manitoba and The Manitoba Hydro-Electric Board respecting the diversion of certain waters into the Winnipeg River and the power generated from such waters.

Commencement 2. This Act comes into force on the day it receives Royal Assent.

Short title

3. This Act may be cited as The Manitoba-Ontario Lake St. Joseph Diversion Agreement Authorization Act, 1958.

SCHEDULE

Agreement made this

day of

, 1958

BETWEEN:

HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF MANITOBA (herein represented by the Honourable Douglas Campbell, Premier of Manitoba), hereinafter called "Manitoba".

OF THE FIRST PART,

HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF ONTARIO (herein represented by the Honourable Clare E. Mapledoram, Minister of Lands and Forests), hereinafter called "Ontario".

OF THE SECOND PART,

THE MANITOBA HYDRO-ELECTRIC BOARD, hereinafter called the "Board",

OF THE THIRD PART,

-and-

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO, hereinafter called the "Commission",

OF THE FOURTH PART.

Whereas the Commission wishes to store water in Lake St. Joseph in the District of Kenora, in the Province of Ontario, and to divert water therefrom by way of the Root River into Lac Seul in the said District of Kenora and thereby into the English and Winnipeg Rivers within the Province of Ontario for the purpose of increasing the energy production of generating stations of the Commission located on the English River, and the Commission proposes to construct, operate and maintain the works and structures necessary for such purpose;

'And Whereas Ontario is agreeable to the diversion by the Commission of the said water;

And Whereas the Board wishes to utilize the said diverted water in the generation of electrical energy in generating stations located on the Winnipeg River within the Province of Manitoba;

And Whereas the Board has agreed to make available to the Commission, under the terms and provisions hereinafter appearing, the quantities hereinafter referred to of energy deemed capable of being produced at generating stations on the Winnipeg River in the Province of Manitoba from or by the said diverted water;

And Whereas subject to the terms and provisions hereinafter appearing, Manitoba is agreeable to accepting the said diverted water into the Winnipeg River within the Province of Manitoba;

Now Therefore This Agreement Witnesseth that in consideration of the premises the parties hereto agree as follows:

- 1. Ontario does hereby authorize and empower the Commission to divert water from Lake St. Joseph, in the District of Kenora, in the Province of Ontario, by way of the Root River into Lac Seul, in the said District of Kenora and thereby into the English and Winnipeg Rivers within the Province of Ontario, and to construct, operate and maintain all such works and structures (hereinafter called the "diversion works") necessary or required for the purposes thereof and does further authorize and empower the Commission to exercise and enjoy, in relation to the diversion of such water, all of its rights and powers under *The Power Commission Act*, R.S.O. 1950, Chapter 281.
- 2. Subject to the provisions of paragraph 5 hereof, Manitoba does hereby undertake and agree to accept the diverted water into the Winnipeg River within the Province of Manitoba and does hereby authorize and empower the Board to utilize the said diverted water for its purposes.
- 3. The Commission does hereby undertake and agree to construct, operate and maintain the diversion works and, subject

to the provisions of *The Power Commission Act*, to pay the full cost of such construction, operation and maintenance.

- 4. Subject to the provisions of *The Lake of the Woods Control Board Act*, 1922, Statutes of Ontario 1922, Chapter 21, and of *The Lake of the Woods Control Board Act*, 1921, Statutes of Canada 1921, Chapter 10, in each case as amended or re-enacted from time to time and of this agreement, the Commission does hereby undertake and agree to operate, maintain and control the diversion works in such manner as to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the diverted water for the purposes of the generation of power within the Provinces of Ontario and Manitoba.
- 5. In operating, maintaining and controlling the diversion works under this agreement, the Commission will exercise its best endeavour to ensure that water will not be diverted from Lake St. Joseph at such times or in such manner as will be likely to result in flows in the Winnipeg River in excess of Thirty-four Thousand (34,000) cubic feet per second at the Slave Falls Generating Station in Manitoba and whenever and for as long as flows in the Winnipeg River at said generating station shall exceed, or appear likely to exceed, Thirty-four Thousand (34,000) cubic feet per second, the Commission will cease or restrict such diversion, as the case may be, if, when and for so long as requested to do so by Manitoba or the Board.
- 6. It is understood and agreed that as between the Board and the Commission, the Commission shall be entitled to all of the energy produced within the Province of Ontario from or by the diverted water.
- 7. The Commission shall be entitled to receive from the Board, and the Board undertakes and agrees to deliver to the Commission, in the manner hereinafter provided, quantities of energy equivalent to one-half of the "total weekly productive energy" in each week as defined in Section C of Schedule "A" hereto, calculated in accordance with the provisions of this agreement and the principles set forth in said Schedule.
- 8. The Commission undertakes and agrees that it will pay to the Board, in the manner hereinafter provided 1.4 mills per kilowatt-hour for all energy demanded by the Commission and delivered by the Board pursuant to this agreement. For the purpose only of calculating the appropriate payments, delivery shall be deemed to have been made at the 115 KV bus at Seven Sisters Generating Station.
- 9. The point of delivery to the Commission under this agreement of energy to which the Commission is entitled shall be at

the boundary between the Provinces of Manitoba and Ontario and said energy shall be delivered by means of existing or future interconnecting transmission facilities between the systems of the Commission and of the Board. The energy delivered by the Board to the Commission under this agreement shall be measured and determined from readings of watthour meters or recording demand meters supplied, maintained and read by the Board or the Commission, having a demand interval of one hour. Such meters may be installed at any location convenient to the Board and to the Commission on the interconnecting transmission line or lines. An appropriate allowance shall be made in all measurements for line losses between the metering points and the intersection of the said interconnecting transmission line or lines with the said Interprovincial boundary.

- 10. Promptly after the beginning of each calendar month, the Board will render to the Commission a bill for the energy delivered under this agreement during the previous month. Such bills shall be paid within fifteen (15) days of the date upon which the same are received, and payment shall be made by cheque payable at par at Winnipeg, Manitoba.
- 11. The quantity of energy to which the Commission is entitled under this agreement in any week, calculated in accordance with the principles set out in said Schedule "A", shall normally be demanded by and delivered to the Commission within the week next ensuing such week of entitlement; provided that delivery may be delayed beyond such time at the request of the Commission or the Board if such request be approved by the non-requesting party. Subject to the foregoing, delivery of energy to the Commission will be made at such times as are suitable to the Commission and to the Board, it being understood that the Board shall not be obliged to deliver energy under this agreement during the period of the daily peak loads on the electrical system of the Board.
- 12. In producing energy from said diverted water or in delivering energy to the Commission under this agreement, the Board shall not be required to operate any equipment at loads in excess of those which it considers to be within safe limits or which in its opinion will result in undue shortening of the life of the equipment, nor shall the Board be required to construct additional facilities or to defer maintenance solely for the purpose of delivering energy to the Commission under this agreement.
- 13. For the purpose of facilitating the carrying out of the terms of this agreement as between the Commission and the Board, there is hereby established an Operating Committee consisting of two members, one of whom, or his alternate appointed hereunder, shall be the representative of the Board and the other of

whom, or his alternate so appointed, shall be the representative of the Commission.

- 14. The Operating Committee is authorized on behalf of the Board and of the Commission respectively to do all acts and things necessary to carry out the provisions under this agreement respecting the control and diversion of water and the determination, delivery and measurement of energy to which the Commission is entitled, and for such purposes the Operating Committee shall have access at all reasonable times to the pertinent and relevant records and accounts of the Board and of the Commission, which shall each furnish to the Operating Committee all such relevant and pertinent information as may be necessary to enable the Committee to perform its duties.
- 15. All the decisions of the Operating Committee in respect of matters within its jurisdiction shall be unanimous. In the event that the members of the Operating Committee fail to agree on any matter, the subject of disagreement shall be referred to the General Managers of the Board and of the Commission respectively for their decision. In the event that the said General Managers fail to agree on such referred matter, the subject of disagreement shall be referred for decision to a consulting engineer or to a firm of consulting engineers to be selected by the General Managers, and the decision of such engineer or firm shall be final and binding on the Board and the Commission.
- 16. The Board hereby appoints Mr. C. G. Mills as its representative on the Operating Committee and Mr. V. W. Dick as his alternate. The Commission hereby appoints Mr. F. C. Lawson as its representative on the Operating Committee and Mr. W. G. Chandler as his alternate.
- 17. Each of the Board and the Commission may from time to time remove and replace any member of the Operating Committee or his alternate appointed by it and shall fill any vacancy promptly. Prompt notice in writing of removals and replacements under this paragraph will be given by the Board or by the Commission to the other.
- 18. Manitoba and the Board shall indemnify and save harmless Ontario and the Commission of, from and against any and all loss, costs and damages to which Ontario or the Commission shall be put or shall suffer arising or resulting in any manner whatsoever within the Province of Manitoba from the introduction into the Winnipeg River of the diverted water to the extent permitted by this agreement, and Ontario and the Commission shall indemnify and save harmless Manitoba and the Board of, from and against any and all loss, costs and damages to which

Manitoba or the Board shall be put or shall suffer arising or resulting in any manner whatsoever within the Province of Ontario from the introduction into Lac Seul, the English River and the Winnipeg River of the diverted water as permitted by this agreement or the diversion of such water from Lake St. Joseph and its normal water courses.

- 19. The General Managers of the Board and the Commission, acting jointly, may from time to time in writing amend the provisions of Schedule "A" hereto, other than Section C thereof, and the parties hereto shall be bound by any such amendment.
- 20. This agreement shall take effect upon the completion by the Commission of the diversion works and notification thereof to the Board and shall continue in full force and effect unless and until terminated by Manitoba, by Ontario, by the Board or by the Commission by at least Four (4) years' notice given in writing and by registered mail addressed to the other parties to the agreement. Upon termination of this agreement, the Commission will cease the diversion of water from Lake St. Joseph into Lac Seul.
- 21. This agreement shall enure to the benefit of and be binding upon the parties hereto, their and each of their respective successors and assigns.

In Witness Whereof the parties hereto have caused this agreement to be executed.

	Premier of the Province of Manitoba.
Тне	Minister of Lands and Forests. MANITOBA HYDRO-ELECTRIC BOARD:
	Chairman.
Тне	Secretary. Hydro-Electric Power Commission of Ontario:
	Chairman.
	Secretary.

SCHEDULE "A"

General principles for determination of the share of The Hydro-Electric Power Commission of Ontario of energy deemed capable of being generated at the generating stations on the Winnipeg River in Manitoba from water diverted from Lake St. Joseph.

Section A—Measurements

To be measured continuously:

- (1) Discharge from Lake St. Joseph to Lac Seul.
- (2) Discharge from Lac Seul to English River.
- (3) Discharge at Manitou Falls Generating Station.
- (4) Discharge at Caribou Falls Generating Station.

 Each of the above shall be averaged for weekly periods.

To be measured at the end of each week:

- (5) The elevation of the water level in Lac Seul.
- (6) The elevation of the water level in Manitou Falls forebay.
- (7) The elevation of the water level in the Caribou Falls forebay.

Section B—Adjusted Diverted Water

The adjusted diverted water in each week is the water diverted from Lake St. Joseph in that week adjusted for a portion that is to be stored or a portion previously stored in Lac Seul and/or the forebays of the Commission's Manitou Falls and Caribou Falls generating stations, allowing for appropriate time lags.

Section C—Total Weekly Productive Energy

The weekly productive energy at each generating station on the Winnipeg River in Manitoba is the difference between the amount of energy which could be produced at that station in a given week from the total river flow in that week (with the equipment currently available at that station) and the amount of energy which could be produced at the same station in that week from the total river flow in that week less the adjusted diverted water in that week. The total weekly productive energy is the sum of the above in the same week for the several stations on the Winnipeg River in the Province of Manitoba.

Section D-Energy Delivered to the Commission

The one-half of the total weekly productive energy to which the Commission is entitled at the Interprovincial boundary is to be reduced by an appropriate allowance for line losses between the Interprovincial boundary and the 115 KV bus in Seven Sisters Generating Station.

Section E-Operating Committee

The Operating Committee is authorized to make the detailed calculations required to carry out the general principles described above, which calculations are to be made in accordance with methods to be set out fully in an Operating Committee Standard Practice.

CHAPTER 80

An Act to amend The Power Commission Act

Assented to March 27th, 1958. Session Prorogued March 27th, 1958.

HER MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

- 1. Subsection 3 of section 45a of The Power Commission Act, as R.S.O. 1950, enacted by section 5 of The Power Commission Amendment Act, 1952, (1952, c. 77, s. 5), subs. 3, re-enacted substituted therefor:
 - (3) The Commission shall also pay the amount that the Annual current rates on business assessment on lands owned by to municiand vested in the Commission or buildings used exclusively for executive and administrative purposes and owned by and vested in the Commission would produce based on 60 per cent of the assessed values of such land or buildings as determined under this section.

2. Sections 81, 82 and 83 of *The Power Commission Act* are re-enacted; ss. 82, 83, repealed and the following substituted therefor:

81.—(1) Notwithstanding anything in this or any other Act, Contracts a township may, without petition and without the assent lighting of the electors, pass a by-law for entering into a contract ships with the Commission for the lighting of streets in the township.

(2) The by-law may,

Contents of

- (a) define one or more street lighting areas in the township;
- (b) enlarge, reduce or alter the boundaries of any street lighting area in the township;
- (c) amalgamate any street lighting areas in the township;

- (d) provide that the cost of the street lighting works in any street lighting area in the township, including debenture charges, the cost of maintenance and management of the works and the cost of power supplied for street lighting under this Act, shall be assessed and levied on the rateable property in the area, or provide that such part of the cost as to the council seems proper shall be paid by the township and that the remainder of the cost shall be assessed and levied on the rateable property in the area, or provide that the entire cost shall be paid by the township; and
- (e) provide that the contract with the Commission shall apply to any street lighting area.

Mans

(3) Any street lighting area may be defined by the use of a map or sketch to be attached to the by-law and the information shown on the map or sketch shall form part of the by-law to the same extent as if included therein.

Power of township to construct works (4) The township may acquire or construct the works necessary for lighting the streets, and for such purpose the township shall have and may exercise all the powers conferred upon townships under *The Municipal Act* or *The Local Improvement Act*.

R.S.O. 1950, cc. 243, 215

> (5) If the contract so provides, the Commission may, on behalf of the township, acquire, construct, extend, reconstruct, maintain, operate and administer any such street lighting works.

Power of Commission to construct works

(6) The provisions of Part II with respect to the annual payments to be made by any municipality that has entered into a contract with the Commission apply to any contract entered into under this section and extend to all street lighting works constructed under the contract, but do not apply in respect of the capital cost of works acquired or constructed by the township.

Where Part II to apply

3. Sections 94 and 95 of The Power Commission Act are repealed.

R.S.O. 1950, c. 281, ss. 94, 95, repealed

4. This Act shall be deemed to have come into force on the 1st day of January, 1958.

Commencement

Short title

5. This Act may be cited as The Power Commission Amendment Act, 1958.

ORDER IN COUNCIL

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities and corporations mentioned in the list hereunder given were approved by Order in Council.

Village	Improvement Districts
Pickering	Deep River
Township	Gladstone
FalconbridgeApr. 24, 1958	
Corpor	
Atlas Steels Limited	
Atlas Steels Limited	
Aunor Gold Mines, Limited	
Broulan Reef Mines Limited	
Building Products Limited	
Canadian Rock Salt Company Limited	
Dome Mines Limited	
Dominion Fertilizers Ltd	
Falconbridge Nickel Mines Limited	
Harvey Construction Company Limited	
	May 22, 1958
Her Majesty the Queen in right of the Province the Minister of Public Works for the Provin	of Ontario, represented by ce of Ontario
Hollinger Consolidated Gold Mines Limited	June 3, 1958
Howard Smith Paper Mills, Limited	Sept. 18, 1958
Imperial Oil Limited	June 19, 1958
Imperial Oil Limited	June 19, 1958
Kimberly-Clark Pulp and Paper Company Limit	redAug. 27, 1958
McKinnon Industries, Limited	May 29, 1958
Ontario Water Resources Commission	Aug. 13, 1958
Page-Hersey Tubes, Limited	May 22, 1958
Pembroke Electric Light Company Limited	
Pembroke Electric Light Company Limited	
Port Weller Dry Docks Limited	
Queenston Gold Mines Limited	
Steep Rock Iron Mines Limited	
University of Western Ontario, the Board of Gov	
Welland Tubes Limited	
Young, H. G., Mines Limited	
Young, H. G., Mines Limited	



MUNICIPAL ELECTRICAL SERVICE

THIS municipal service supplement brings conveniently into one section statistical information relating to retail service to customers supplied by the 354 municipal electrical utilities and the 29 Commission-owned local systems. The number of domestic, commercial and power service customers so supplied had increased by 64,352 during the year and at December 31 stood at 1,284,584.

The numbers in the various customer groups that contribute to this total reflect reclassifications of customers being made in conjunction with the introduction of new rate schedules. The purpose of these reclassifications is that certain power customers, for example small processing companies such as dairies and bakeries, shall be billed under commercial service, and that commercial service customers with connected loads of less than 5 kilowatts shall be billed under domestic service. The table on page 196 provides some indication of the growth in domestic, commercial, and power service over a 15-year period. The statistical information relative to energy consumption and unit cost for these three main classes of service is reproduced in the graphs on page 197.

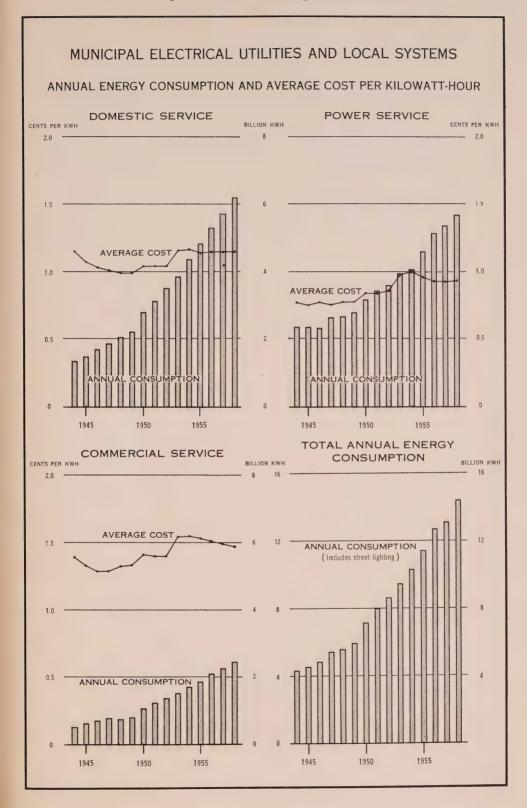
The revenues derived from street lighting are based on estimated consumption only. A total of 223,124,223 kilowatt-hours was billed by the municipal utilities and local systems for this type of service (See table on page 116) and the revenue applicable to the municipal utilities is given in the analysis of revenue and expense that follows. In each of the operating

statements of the utilities the revenue from street lighting is included in the amount shown for sales of electric energy. It can be derived for any utility by subtracting from the revenue shown in Statement "B" the sum of the revenues for the same utility shown in Statement "D".

Municipal Electrical Utilities and Local Systems CUSTOMERS, REVENUE, AND CONSUMPTION 1944 to 1958

Service	Year	Revenue	Consumption	Customers	Monthly consumption per customer	Average cost per kwh
		\$	kwh	No.	kwh	¢
Domestic	1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	15,528,445 16,053,818 17,526,854 18,937,674 20,295,932 21,947,915 29,064,176 32,905,664 36,811,115 44,647,668 50,833,346 55,241,247 61,234,494 65,842,103 69,804,608	1,348,099,019 1,494,258,124 1,704,125,246 1,870,974,898 2,032,922,876 2,224,473,480 2,805,149,825 3,165,537,195 3,526,507,079 3,863,977,405 4,395,521,145 4,836,433,016 5,310,916,819 5,700,736,923 6,088,215,493	579,890 608,905 628,118 648,282 671,914 706,294 767,286 800,033 836,802 877,323 930,674 970,829 1,031,482 1,072,868 1,139,061	194 205 226 240 252 262 304 330 351 367 394 415 429 443	1.15 1.07 1.03 1.01 1.00 0.99 1.04 1.04 1.16 1.16 1.15 1.15
Commercial	1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	7,298,848 8,429,573 9,364,009 10,277,574 10,182,051 10,890,639 15,231,494 17,549,402 19,502,920 23,603,194 26,293,250 28,576,115 31,423,691 33,901,487 35,968,060	524,905,356 634,878,480 725,475,237 797,642,711 769,650,340 819,475,244 1,080,316,296 1,254,339,597 1,394,152,087 1,532,991,241 1,701,167,341 1,866,799,984 2,087,639,883 2,276,182,472 2,447,910,663	78,256 84,413 89,109 91,926 95,239 98,682 107,817 111,154 115,304 119,498 123,884 127,913 127,497* 124,757* 122,446*	559 627 679 723 673 692 832 940 1,008 1,069 1,144 1,216 1,365 1,520 1,666	1.39 1.33 1.29 1.32 1.33 1.41 1.40 1.54 1.55 1.53 1.51 1.49
Power	1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	18,375,443 17,770,481 17,981,265 19,989,875 20,742,344 21,814,062 26,966,954 29,353,071 31,403,227 38,482,884 40,855,075 44,270,882 47,808,610 50,124,976 52,741,979	2,374,869,860 2,346,870,889 2,329,774,691 2,652,001,321 2,687,513,708 2,806,244,668 3,193,783,939 3,459,742,798 3,619,518,306 3,948,124,809 4,089,513,923 4,637,527,118 5,140,704,025 5,366,245,253 5,651,743,390	13,860 14,726 15,529 16,325 16,885 17,594 18,788 19,370 20,055 20,885 21,671 22,237 22,809 22,607* 23,077	14,279 13,281 12,502 13,538 13,263 13,292 14,166 14,884 15,040 15,753 15,726 17,379 18,782 19,781 20,409	0.77 0.76 0.77 0.75 0.77 0.78 0.84 0.85 0.87 0.98 1.00 0.96 0.93

^{*} Decrease in number of customers reflects reclassifications from commercial to domestic and from power to commercial billing.



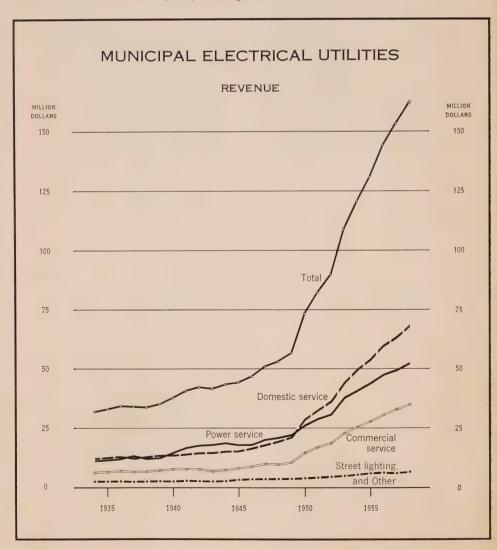
MUNICIPAL ELECTRICAL UTILITIES

Revenue and Expense

In this year's Report cents have been omitted from the operating reports and balance sheets of the municipal utilities. The total revenue increased by 5.9 per cent from \$153,435,888 to \$162,424,745 in 1958. Domestic service revenue at \$68,274,886 represented 42.0 per cent of the total, commercial service revenue at \$35,105,441 was 21.6 per cent and power service revenue at \$52,447,376 was 32.3 per cent. Street-lighting revenue amounted to \$4,873,056 and miscellaneous revenue to \$1,723,986 or 3.0 and 1.1 per cent respectively.

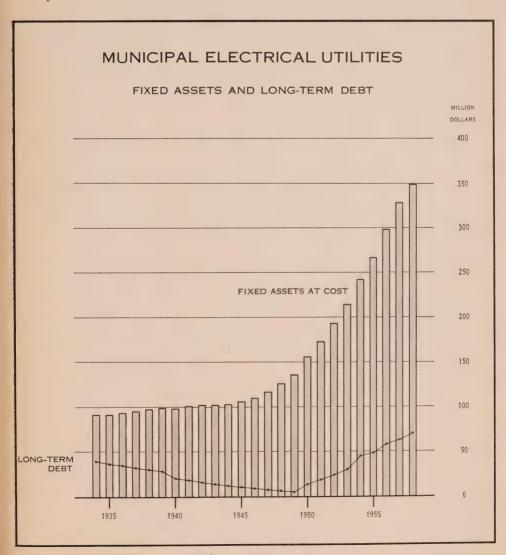
Summary of Financial Position

The investment of the utilities in fixed assets at cost at December 31, 1958 amounted to \$349,706,161, against which accumulated depreciation



of \$72,673,866 had been provided. Total assets, after deducting accumulated depreciation, amounted to \$554,268,427 of which \$218,736,441 represented the equity in the Commission's systems acquired by municipal utilities operating under cost contracts with the Commission. This equity is the counterpart of the sinking fund reserve shown under Capital on the Commission's balance sheets. The amounts shown in the two statements differ because most utilities close their books before the Commission's calculation of sinking fund for the year is available, and they therefore show the equity account as at the end of the previous rather than the current year.

The utilities' investment in fixed assets was increased by \$21,780,187. The net long-term debt, allowing for changes in local sinking fund for retirement of capital debt, rose only by \$5,576,618. At \$68,330,356 net debt was 19.5 per cent of the cost of fixed assets.



Municipal Retail Rates

Under The Power Commission Act the Commission exercises supervisory control over the activities of the municipal electrical utilities, and their rates to ultimate customers are subject to the Commission's approval. These rates must provide the utility with sufficient revenue to meet the cost of providing service and should also distribute this cost equitably among the customers being served.

Basically revised rate structures were introduced in 1956 following studies carried out over a period of years by the Commission in conjunction with the rates committee of the Association of Municipal Electrical Utilities of Ontario. The need for revision was apparent because of radical changes that have taken place in recent years both in the requirements of customers and in the cost of providing electrical service for them. The adoption of the new rate structures will result in a more uniform application of the basic principles of rate development and will eliminate a great many anomalies and inequities that have arisen because of piecemeal changes over the years. The utilities are now changing over progressively to the new rate structures as revisions in their particular schedules become necessary.

Financial and Statistical Tables

Four statistical tables complete this municipal service supplement. The first two, designated "Statements A and B", and summarized on page 203 deal with accounting operations of the 354 municipal electrical These statements are the balance sheets and operating reports of the utilities alphabetically arranged for the Southern Ontario System and the Northern Ontario Properties. The other two statements, designated "Statement C" and "Statement D" give rates and statistics for each of the 354 utilities and 29 Commission-owned local systems. Both statements are alphabetically arranged. The rate schedules in Statement "C" are supplemented by typical monthly bills for selected levels of consumption to facilitate comparison of the cost of service in different municipalities. Statement "D" gives information supplementary to that given in Statement "B" regarding customers, revenue, and consumption, both total and average per customer, as well as average unit costs for the three main classes of service. population figures given are those recorded in the Municipal Directory for 1959 published by the Department of Municipal Affairs of Ontario.

MUNICIPAL ELECTRICAL SERVICE

Statistical Tables

STATEMENTS A and B

Financial Statements of the Municipal Electrical Utilities Consolidated for Years 1949 to 1958	. Page 202
By Municipalities	
STATEMENT C	
Rates and Typical Bills for Electrical Service Provided by the	
354 Municipal Electrical Utilities and 29 Local Systems	Page 254
STATEMENT D	
Customers, Revenue, and Consumption in Municipalities Served by	D-4- 27(
the 354 Municipal Electrical Utilities and 29 Local Systems	rage 276

MUNICIPAL ELECTRICAL UTILITIES

Vear	1949	1950	1951	1952
Number of municipalities included	315	321	324	327
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	\$ 136,745,779 43,893,598	\$ 156,148,064 46,310,559	\$ 173,722,457 48,087,417	\$ 193,795,886 50,985,329
Net fixed assets	92,852,181	109,837,505	125,635,040	142,810,557
CURRENT ASSETS Cash on hand and in bank Investment in government securities Accounts receivable	2,654,186 24,109,962 4,878,683	2,807,734 19,706,945 6,922,076	3,276,779 16,291,593 7,727,033	4,667,729 11,542,720 7,386,628
Total current assets	31,642,831	29,436,755	27,295,405	23,597,077
Inventory of stores, tools and equipment at cost less depreciation	4,229,137 569,498 1,245,093	5,114,209 592,491 1,685,128	7,514,369 613,435 1,636,237	8,001,403 388,410 1,889,669
Total other assets	6,043,728 100,051,663	7,391,828 108,475,000	9,764,041 118,269,171	10,279,482 128,655,935
	230,590,403	255,141,090	280,963,657	305,343,051
LIABILITIES Debentures outstanding Accounts payable	4,545,745 6,610,041 2,984,133	14,069,133 7,377,031 1,489,029	18,889,520 9,738,476 1,612,914	24,159,239 10,375,202 1,762,833
Total liabilities	14,139,918	22,935,193	30,240,910	36,297,274
RESERVES Equity in Ontario Hydro Systems	100,051,663 4,673,979	108,475,000 4,314,186	118,269,171 5,628,317	128,655,935 8,008,752
Total reserves	104,725,642	112,789,186	123,897,488	136,664,687
CAPITAL Debentures redeemed Local sinking fund	55,525,206 569,498	56,534,878 592,491	59,434,312 613,435	60,260,350 388,410
Accumulated net income invested in plant or held as working funds	55,638,367	62,522,125	67,511,315	72,374,288
Frequency standardization expense charged this year	8,228	232,783	733,803	641,958
Total capital	111,724,843	119,416,711	126,825,259	132,381,090
	230,590,403	255,141,090	280,963,657	305,343 051
B. OPERATING STATEMENTS REVENUE				
Sales of electric energy Other	55,455,390 1,447,810	72,091,026 1,432,506	80,964,214 1,347,467	88,744,441 1,314,598
Total revenue	56,903,200	73,523,532	82,311,681	90,059,039
EXPENSE				## #03 #04
Power purchased	36,225,069	46,400,041	50,854,323 290,579	55,583,501 322,179
Local generation	83,884 6,829,358	263,958 7,889,233	8,886,314	9,918,638
Operation and maintenance Administration	5,154,758	6,153,794	7,283,472	7,645,806
Fixed charges—interest and principal.	1,147,268	1,478,056	1,524,931	1,981,386
—depreciation —other	3,631,484 634,690	4,076,474 1,769,378	4,717,497 87,225	5,293,509 71,211
Total expense	53,706,511	68,030,934	73,644,341	80,816,230
Net income or net expense	3,196,689	5,492,598	8,667,340	9,242,809

CONSOLIDATED FINANCIAL STATEMENTS 1949-1958

1953	1954	1955	1956	1957	1958
332	338	343	350	. 351	354
\$ 214,595,382 54,282,571	\$ 243,525,700 58,973,786	\$ 367,090,752 62,413,111	\$ 298,832,207 66,539,420	\$ 327,925,974 68,975,083	\$ 349,706,161 72,673,866
160,312,811	184,551,914	204,677,641	232,292,787	258,950,891	277,032,295
4,884,136	7,376,869	9,277,807	9,858,536	10,819,896	10,769,037
10,716,659	16,361,137	17,392,469	15,512,896	14,174,408	13,333,906
10,298,699	10,695,799	9,939,403	12,776,466	12,573,922	13,911,267
25,899,494	34,433,805	36,609,679	38,147,898	37,568,226	38,014,210
7,527,844	7,413,229	7,900,466	9,681,858	9,579,584	17,237,653
410,806	383,454	383,751	290,682	561,622	1,033,436
2,393,860	3,465,797	2,323,308	2,399,184	1,894,582	2,214,392
10,332,510	11,262,480	10,607,525	12,371,724	12,035,788	20,485,481
140,068,857	152,461,822	167,250,921	183,262,708	200,293,236	218,736,441
336,613,672	382,710,021	419,145,766	466,075,117	508,848,141	554,268,427
20 927 722	45 645 051	40 774 007	F0 F00 FF7	×2.24 # 2 × 0	70 979 HOO
29,827,723 10,943,035	45,645,051 11,090,473	49,776,907 10,574,522	58,528,557	63,315,360	69,363,792
2,224,181	2,843,742	3,493,146	11,633,156 3,910,276	11,226,905 4,207,237	10,105,465 6,175,200
42,994,939	59,579,266	63,844,575	74,071,989	78,749,502	85,644,457
140,068,857	152,461,822	167,250,921	183,262,708	200,293,236	218,736,441
8,153,001	8,095,705	7,765,477	6,948,236	5,658,849	3,507,375
148,221,858	160,557,527	175,016,398	190,210,944	205,952,085	222,243,816
61,417,714	64,210,220	66,488,672	69,338,990	72,087,556	75,021,200
410,806	383,454	383,751	290,682	561,622	1,033,436
83,934,775	98,687,493	114,727,112	132,983,134	152,057,614	170,871,551
366,420	707,939	1,314,742	820,622	560,238	546,033
145,396,875	162,573,228	180,284,793	201,792,184	224,146,554	246,380,154
336,613,672	382,710,021	419,145,766	466,075,117	508,848,141	554,268,427
107,997,010	119,510,834	129,810,298	142,629,092	151,855,664	160,700,759
1,257,311	1,345,281	1,457,199	1,554,347	1,580,224	1,723,986
109,254,321	120,856,115	131,267,497	144,183,439	153,435,888	162,424,745
69,750,630	75.589.512	79,779,898	87,344,024	92,682,089	98,563,451
319,744	426,606	459,594	501,386	575,771	509,240
10,674,897	11,527,269	12,076,620	13,406,955	14,362,587	15,544,060
8,236,239	9,299,705	9,896,805	11,015,893	12,086,583	13,654,386
2,400,468	3,242,705	4,216,877	4,744,936	5,504,842	6,175,773
5,832,594 147,083	6,547,361 141,824	7,193,495 144,121	7,709,546 59,374	8,389,004 53,525	9,216,594 13,060
97,361,655	106,774,982	113,767,410	124,782,114	133,654,401	143,676,564
11,892,666	14,081,133	17,590,087	19,401,325	19,781,487	18,748,181
986,144	1,045,742	1,089,835	1,153,371	1,192,357	1,255,805

Southern Ontario System

Southern Ontario System						
Municipality	Acton	Ailsa Craig	Ajax	Alexandria	Alfred	Alliston
Population	4,053	516	7,982	2,620	1,007	2,903
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 278,603 20,631	\$ 39,665 1,099	\$ 745,816 111,948	\$ 225,249 47,861	\$ 54,218 14,764	\$ 153,908 28,773
Net fixed assets	257,972	38,566	633,868	177,388	39,454	125,135
CURRENT ASSETS Cash on hand and in bank Investment in government securities	8,338 3,000	764	45,030	6,709 13,000	25,390	5,730 18,000 3,896
Accounts receivable	19,967	7	10,050	4,837	4,215	
Total current assetsOTHER ASSETS Inventory of stores, tools and equip-	31,305	771	55,080	24,546	29,605	27,626
ment at cost less depreciation Sinking fund on local debentures	19,130	261	52,834	12,703	519	13,663
Miscellaneous	5,752	390	1,103 53,937	12,924	519	13,764
Total other assets Equity in Ontario Hydro Systems	24,882 310,528	46,858	30,497	110,591	3,007	106,737
	624,687	86,585	773,382	325,449	72,585	273,262
LIABILITIES Debentures outstandingAccounts payableOther	64,400 1,500 7,332	370 205	328,000 380 53,222	7,418 205 2,813	34,000 1,616 2,864	3,971
Total liabilities	73,232	575	381,602	10,436	38,480	3,971
RESERVES Equity in Ontario Hydro Systems Other	310,528	46,858	30,497	110,591	3,007	106,737 104
Total reserves	310,528	46,858	30,497	110,591	3,007	106,841
CAPITAL Debentures redeemed	20,100	1	22,000	45,882	4,000	29,990
Local sinking fund	220,827		339,283	158,540	27,098	132,460
charged this year			264 202	204 422	31,098	162,450
Total capital	240,927	_	361,283		72,585	273,262
	624,687	86,585	773,382	323,447	12,500	1 2.0,202
B. OPERATING STATEMENTS REVENUE	100 550	47 774	319,472	78,729	23,914	91,818
Sales of electric energy Other	199,750 897		4,345		574	840
Total revenue	200,647	17,819	323,817	83,369	24,488	92,658
EXPENSE Power purchased	135,939	10,841	154,876	51,637	11,147	58,539
Local generation Operation and maintenance	15,486	1,785	24,059		757 2,165	12,566 7,473
AdministrationFixed charges—interest and principa	5,603	3	47,421 29,624	2,081	3,163	4,053
—depreciation —other	5,75	1	16,694		1,573	4,033
Total expense	173,94	2 14,501	272,674	73,151	18,805	82,631
Net income or net expense	26,70	5 3,318	51,143	3 10,218	5,683	10,027
Number of customers	1,29	7 225	2,14	9 835	294	1,015
Number of customers	. 1 1,27					

Almonte	Alvinston	Amherst-	Ancaster	Apple Hill	Arkona	Arnprior	Arthur	Athens
3,164	641	burg 4,504	Twp. 13,189	400	440	5,407	1,203	943
\$.	\$	\$	\$	\$	\$	\$	\$	\$
349,680	54,801	327,387	230,210	20,996	39,312	390,254	78,987	54,941
77,420	13,771	69,028	26,545	3,948	8,608	37,455	20,017	8,127
272,260	41,030	258,359	203,665	17,048	30,704	352,799	58,970	46,814
2,470	2,178	25	2,857	4,474	3,476	39,978	584	
52,000	3,500	17,824		4,000	4,000		23,871	21,000
2,309	408	2,325	131	231	157	625	957	6,073
56,779	6,086	20,174	2,988	8,705	7,633	40,603	25,412	27,073
15,840	315	16,425	6,081		34	4,435	1,376	1,044
	240							
	318	29	864			360	1,065	
15,840	633	16,454	6,945		34	4,795	2,441	1,044
36,426	46,036	241,574	91,574	10,877	25,022	149,300	66,223	26,838
381,305	93,785	536,561	305,172	36,630	63,393	547,497	153,046	101,769
		24,100	88,075	3,222		52,733		
4,980	564	1,241	690		345	8,886	396	6,051
1,003	1,561	4,056	1,708	36	228	8,758	678	250
5,983	2,125	29,397	90,473	2 250	573	70.277	1.074	6 201
3,963	2,123	29,391	90,473	3,258	313	70,377	1,074	6,301
36,426	46,036	241,574	91,574	10,877	25,022	149,300	66,223	26,838
1,934	33	438						206
20.260	46.060	242.042	04 574	40.077	25.022	440,300		
38,360	46,069	242,012	91,574	10,877	25,022	149,300	66,223	27,044
72,000	23,530	44,431	41,036	5,080	13,113	72,736	23,913	12,988
264.062	22.064	220 724	00.000	45.445	04.605	255 004	<i></i>	
264,962	22,061	220,721	82,089	17,415	24,685	255,084	61,836	55,436
336,962	45,591	265,152	123,125	22,495	37,798	327,820	85,749	68,424
381,305	93,785	536,561	305,172	36,630	63,393	547,497	153,046	101,769
	70,700	1 000,002	1 000,172	1	1	011,177	100,010	102,007
95,297	16,620	190,680	115,682	6,070	15,466	177,875	34,623	15,217
4,046	116	2,290	688	209	148	2,927	873	908
99,343	16,736	192,970	116,370	6,279	15,614	180,802	35,496	16,125
77,343	10,730	172,770	110,370	0,217		100,002	33,470	10,123
						40		
39,335	9,696	127,621	69,185	2,291	9,981	124,080	24,047	11,099
15,242 9,196	1,610	17,875	15,257	722	992	6,446	4,374	967
9,386	2,006	14,708	8,444	670	1,155	15,195	2,647	1,296
	196	4,982	9,056		10	6,619		49
9,064	1,573	8,572	5,340	514	1,078	8,832	2,330	1,350
82,223	15,081	173,758	107,282	4,197	13,216	161,172	33,398	14,761
17,120	1,655	19,212	9,088	2,082	2,398	19,630	2,098	1,364
1.020	216	1 207	1 100	122	100	1,694	476	336
1,039	316	1,387	1,100	123	188	1,094	470	330

					1	
Municipality	Aurora	Aylmer	Ayr	Baden	Bancroft	Barrie
Population	4,371	4,411	969	803	2,612	20,243
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	\$ 296,523 58,523	\$ 267,245 73,662	\$ 69,316 12,218	\$ 60,108 8,701	\$ 247,688 52,576	\$ 1,346,033 346,542
Net fixed assets	238,000	193,583	57,098	51,407	195,112	999,491
CURRENT ASSETS Cash on hand and in bank	24,872	24,425	,	4,319	43,347	41,709
Investment in government securities Accounts receivable	2,462	4,035	10,500 568	6,500 1,782	1,512	14,499
Total current assets	27,334	28,460	11,068	12,601	44,859	56,208
Inventory of stores, tools and equip-	17,746	8,386	274	1,317	4,773	36,108
ment at cost less depreciation Sinking fund on local debentures Miscellaneous	107	25,705	7,430		1,003	452
Total other assets	17,853 120,307	34,091 214,579	7,704 57,782	1,317 102,263	5,776 14,625	36,560 726,780
Equity in Ontario Hydro Systems	403,494	470,713	133,652	167,588	260,372	1,819,039
	405,474					
LIABILITIES Debentures outstanding Accounts payable Other	4,353 5,528	45,500 2,316 3,265	5,169 268	2,701	86,000 1,635 1,851	132 18,063
Total liabilities	9,881	51,081	5,437	2,881	89,486	18,195
RESERVES Equity in Ontario Hydro Systems Other	120,307 130	214,579 337	57,782	102,263	14,625	726,780
Total reserves	120,437	214,916	57,782	102,263	14,625	727,280
CAPITAL Debentures redeemed		43,202	17,503	5,000	.46,500	65,366
Local sinking fund Accumulated net income invested in plant or held as working funds. Frequency standardization expense	273,176	161,514	52,930	57,444	109,761	1,008,198
charged this year						
Total capital	273,176	204,716	70,433	62,444	156,261	1,073,564
	403,494	470,713	133,652	167,588	260,372	1,819,039
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other			35,087 630	34,383 195		700,758 6,467
Total revenue		187,929	35,717	34,578	86,532	707,225
EXPENSE					F.4.02F	422.005
Power purchased Local generation			24,629	26,583		433,095
Operation and maintenance Administration	13,429	11,143	2,632 1,929	2,486 1,784	5,950	79,498 53,548
Fixed charges—interest and principal —depreciation	1	5,260			4,272	38,341
—depreciation—other		1				
Total expense	. 156,519	163,243	31,162	32,338	78,055	604,482
Net income or net expense	. 21,569	24,686	4,555	2,240	8,477	102,743
Number of customers	. 1,665	5 1,591	362	266	780	6,142

Barry's Bay	Bath	Beachville	Beamsville	Beaverton	Beeton	Belle River	Belleville	Blenheim
1,479	676	818	2,291	1,111	739	1,830	28,032	2,860
\$ 76,714 3,416	\$ 53,553 9,921	\$ 71,015 21,175	\$ 113,857 22,362	\$ 95,801 17,835	\$ 60,369 6,253	\$ 95,726 19,357	\$ 1,188,352 223,129	\$ 261,156 34,502
73,298	43,632	49,840	91,495	77,966	54,116	76,369	965,223	226,654
11,674	5,439	25,930	50	1,865	2,118	11,329	67,518	22,382
357	483	25,000 858	4,000 369	149	1,500 245	2,000 396	205,000 45,202	1,100
12,031	5,922	51,788	4,419	2,014	3,863	13,725	317,720	23,482
531	179	. 388		718	133	4,025	73,892	2,811
		8			1,115			42
531 7,122	179 12,707	396 154,984	62,086	718 75,420	1,248 48,751	4,025 49,417	73,892 959,783	2,853 140,532
92,982	62,440	257,008	158,000	156,118	107,978	143,536	2,316,618	393,521
	9,000					6,600		64,720
602 260	520 728	9,430 380	1,772 1,168	798 655	969	2,373 1,355	31,659	931
862	10,248	9,810	2,940	1,453	969	10,328	31,659	65,651
7,122	12,707	154,984 197	62,086	75,420 370	48,751 87	49,417 15	959,783 3,082	140,532 6,450
7,122	12,707	155,181	62,086	75,790	48,838	49,432	962,865	146,982
7,500	8,500	5,537	37,500	12,839	13,610	13,900	174,997	33,280
77,498	30,985	90,737	55,474	66,036	44,561	69,876	1,147,097	151,186
		4,257						3,578
84,998	39,485	92,017	92,974	78,875	58,171	83,776	1,322,094	180,888
92,982	62,440	257,008	158,000	156,118	107,978	143,536	2,316,618	393,521
24,102 90	17,814	107,696 1,325	75,644 128	56,948 227	26,526 40	46,521 152	675,997 25,277	94,715 2,576
24,192	17,819	109,021	75,772	57,175	26,566	46,673	701,274	97,291
10 770	0.222	02.120	E2 E22	20.640	16 254	24 700	474 447	49 442
10,772	9,228	92,130	52,583	39,612	16,354	24,789	474,447	48,412
1,440 2,006	970 1,817	4,395 1,670	3,483 5,462	3,882 3,929	2,485 1,687	7,092 5,562	58,233 60,752	6,486 14,205
11	852					1,560		8,444
1,612	1,403	2,192	3,010	2,513	1,411	2,658	31,080	6,194
15,841	14,270	100,387	64,538	, 49,936	21,937	41,661	624,512	83,741
8,351	3,549	8,634	11,234	7,239	4,629	5,012	76,762	13,550
390	234	282	789	525	304	657	7,162	1,082

Municipality	Bloomfield	Blyth	Bobcaygeon	Bolton	Bothwell	Bowman- ville
Population	744	733 .	1,184	1,556	807	7,112
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 54,616 16,717	\$ 61,124 7,820	\$ 206,965 53,243	\$ 126,913 16,172	\$ 48,251 15,419	\$ 584,959 156,586
Net fixed assets	37,899	53,304	153,722	110,741	32,832	428,373
CURRENT ASSETS Cash on hand and in bank Investment in government securities	11,993	10,013 2,000	100	5,211	4,413 6,000 754	18,252 119,139 4,038
Accounts receivable		266		2,320		
Total current assets OTHER ASSETS Inventory of stores, tools and equipment at cost less depreciation		12,279	613	7,531 2,447	11,167	141,429 25,632
Sinking fund on local debentures Miscellaneous		238	0,423	1,857	4,593	346
Total other assets Equity in Ontario Hydro Systems		238 43,187	6,425 18,160	4,304 63,649	4,701 53,559	25,978 365,072
	83,109	109,008	178,920	186,225	102,259	960,852
LIABILITIES Debentures outstanding		242	8,479 295	53,452 2,543 3,166	497 107	2,177 ·2,906
Total liabilities		242	8,774	59,161	604	5,083
RESERVES Equity in Ontario Hydro Systems. Other.	29,314	43,187	18,160	63,649 279	53,559	365,072 125
Total reserves	29,314	43,187	18,160	63,928	53,559	365,197
CAPITAL Debentures redeemed		16,033	90,000	13,949	5,534	71,000
Local sinking fund Accumulated net income invested in plant or held as working funds. Frequency standardization expense	ı	49,546	61,986	49,187	42,562	519,572
charged this year					,	
Total capital	53,149	65,579	151,986	63,136	48,096	590,572
	83,109	109,008	178,920	186,225	102,259	960,852
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy Other	20,534 472	34,354	44,916 743	51,250 81	21,484 524	241,568 5,010
Total revenue	21,006	34,420	45,659	51,331	22,008	246,578
EXPENSE Power purchased	11,983	23,166	21,734	32,215	14,227	170,195
Operation and maintenance Administration		1,923 1,576	6,368 5,703	4,149 4,011	1,408 1,574	24,561 20,174
Fixed charges—interest and principal —depreciation		1,470	5,012 2,768	3,337 2,717	905	16,987
—other						
Total expense	16,416	28,139	41,585	46,429	18,114	231,917
Net income or net expense	4,590	6,281	4,074	4,902	3,894	14,661

Bracebridge	Bradford	Braeside	Brampton	Brantford	Brantford	Brechin	Bridgeport	Brigden
2,802	2,212	510	14,374	52,668	Twp. 6,722	219	1,602	525
\$ 785,193 182,149	\$ 192,428 25,253	\$ 28,182 771	\$ 1,097,289 100,768	\$ 4,312,374 994,178	\$ 805,310 215,256	\$ 17,090 2,419	\$ 78,678 15,735	\$ 40,029 9,658
603,044	167,175	27,411	996,521	3,318,196	590,054	14,671	62,943	30,371
6,049 9,392	14,061 8,000 4,541	93	6,286 1,500 7,860	8,770 22,000 54,850	46,574 54,781 3,955	1,226 7,000 218	5,183 5,000 521	7,873
15,441	26,602	2,593	15,646	85,620	105,310	8,444		
15,441	20,002	2,393	13,040	83,020	103,310	0,444	10,704	8,170
33,090	24,842		40,037	151,582	50,414	143	330	98
994	561	150	470	9,763	7,837		880	34
34,084 1,500	25,403 82,788	150 12,787	40,507 658,894	161,345 3,757,535	58,251 153,920	143 21,127	1,210 37,757	132 36,590
654,069	301,968	42,941	1,711,568	7,322,696	907,535	44,385	112,614	75,263
282,003		2,314 442	307,000	631,087	526,469	700	18,278	
617 1,170	2,303	190	12,292 10,598	78,080 70,860	3,634 17,958	700 100	154 1,694	95 115
283,790	2,303	2,946	329,890	780,027	548,061	800	20,126	210
1,500	82,788 73	12,787	658,894 799	3,757,535 2,814	153,920	21,127 54	37,757	36,590
1,500	82,861	12,787	659,693	3,760,349	153,920	21,181	37,757	36,590
223,797	23,351	3,686	112,051	822,027	42,543	2,664	14,090	8,000
144,982	193,453	23,522	609,934	2,145,876	185,686	19,740	40,641	30,463
				185,583	22,675			
368,779	216,804	27,208	721,985	2,782,320	205,554	22,404	54,731	38,463
654,069	301,968	42,941	1,711,568	7,322,696	907,535	44,385	112,614	75,263
123,244 4,445	84,434 1,076	17,852 299	491,514 2,335	2,024,667 3,169	351,714 4,857	6,766 331	39,484 391	15,051 117
127,689	85,510	18,151	493,849	2,027,836	356,571	7,097	39,875	15,168
1.100	50.000	40.005	210 505	4 404 040	4.60.707	W 4 M 0	25 102	0.650
1,189 36,049	50,082	12,025	310,787	1,406,032	162,525	5,150	25,102	8,659
17,535 10,352	13,756 6,791	616 901	19,691 19,878	127,473 81,850	33,406 25,797	710 653	2,675 4,410	1,681 1,402
28,960 16,469	4,574	450 548	26,828 23,661	69,253 119,359	42,793 23,296	78 414	1,533 2,026	1,123
10,409	4,374		23,001		23,290		2,020	1,123
110,554	75,203	14,540	400,845	1,803,967	287,817	7,005	35,746	12,865
17,135	10,307	3,611	93,004	223,869	68,754	92	4,129	2,303
1,242	770	153	4,446	16,437	1,953	95	406	220

Municipality	Brighton	Brockville	Bronte	Brussels	Burford	Burgess- ville
Population	2,256	15,701	2,254*	808	1,041	248
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 154,485 12,474	\$ 1,233,530 308,592	\$ 125,935 8,415	\$ 63,934 6,861	\$ 63,973 17,518	\$ 19,987 6,237
Net fixed assets	142,011 50 10,000 767	924,938 12,000 17,289	117,520 1,591 2,005	57,073 3,813 129	46,455 4,633 3,500 829	13,750 84 1,500 538
Total current assets OTHER ASSETS Inventory of stores, tools and equip-	10,817	29,289	3,596	3,942	8,962	2,122
ment at cost less depreciation Sinking fund on local debentures Miscellaneous	12,447	2,311	11,765	418	6,334	50
Total other assets Equity in Ontario Hydro Systems	12,447 70,918	56,070 839,260	12,669 16,263	418 52,659	6,678 56,373	267 18,886
	236,193	1,849,557	150,048	114,092	118,468	35,025
LIABILITIES Debentures outstandingAccounts payableOther	1,395 2,811	88,000 24,434 10,765	31,300 4,239 3,021	3,005 203	12,000 216 1,161	27
Total liabilities	4,206	123,199	38,560	3,208	13,377	27
RESERVES Equity in Ontario Hydro Systems Other	70,918	839,260 752	16,263 162	52,659	56,373	18,886
Total reservesCAPITAL Debentures redeemedLocal sinking fund.	70,918 25,000	840,012 179,270	16,425 7,407	52,659	9,000	18,886 3,500
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	136,069	707,076	87,656	37,225	39,718	13,838
charged this year			07.063		40.740	
Total capital	161,069	886,346	95,063	58,225	48,718	16,112
	236,193	1,849,557	150,048	114,092	118,468	35,025
B. OPERATING STATEMENTS REVENUE Sales of electric energy Other	63,948 555	629,276 8,965	61,124	31,989 10	40,019 199	9,124
Total revenue	64,503	638,241	61,128	31,999	40,218	9,193
EXPENSE Power purchased	41,418	412,300	32,460	22,596	25,642	6,594
Operation and maintenance Administration		69,716 55,368 9,482	6,032 6,606 3,305	1,041 2,769	3,660 1,981 1,105	520 321 6
—depreciation —other	3,365	32,521	2,927	1,445	1,869	610
Total expense	58,447	579,387	51,330	27,851	34,257	8,051
Net income or net expense	6,056	58,854	9,798	4,148	5,961	1,142
	939					

^{*}Population from assessment rolls

Burk's Falls	Burlington	Caledonia	Campbell-	Cannington	Cardinal	Carleton	Casselman	Cayuga
895	37,630	2,170	ville 342	1,012	2,040	Place 4,684	1,264	850
\$	\$	\$	\$	\$	· ·	e		
65,492	2,164,562	127,948	15,997	67,110	\$ 65 767	\$ 227,448	\$ 72.006	\$
10,692	70,827	21,587	3,737	14,456	65,767	40,170	72,006 7,710	81,970 13,266
	70,027			17,750	10,130		7,710	13,200
54,800	2,093,735	106,361	12,260	52,654	55,609	187,278	64,296	68,704
10,886	397,518	7,391	2,389	6,757	9,486	4 7 000	13,501	860
926	38,100 69,826	798	500	6,000	1,500	15,000	14,000	12,500
920	09,820	190	466	385	562	5,070		306
11,812	505,444	8,189	3,355	13,142	11,548	20,070	27,501	13,666
			,					20,000
1,922	114,548	2,042	99	81		11,014	619	1,498
5,291	100,762	11,857			920	272	4 020	
3,291	100,702	11,037			829	272	4,838	
7,213	215,310	13,899	99	81	829	11,286	5,457	1,498
10,373	169,113	85,254	11,837	57,121	46,124	308,996	8,385	38,002
84,198	2,983,602	213,703	27,551	122,998	114,110	527,630	105,639	121,870
16,193	2,111,157	3,500				14,680	54,500	
611	159,197	360	5	7,737		8,830		3,231
233	51,814	1,705		385	15	3,295	10	. 786
17,037	2,322,168	5,565	5	8,122	15	26,805	54,510	4.017
17,037	2,322,100	3,303	3	0,122	13	20,803	34,310	4,017
10,373	169,113	85,254	11,837	57,121	46,124	308,996	8,385	38,002
			8	28		245		62
40.000	460.440	05.054	11.015		46.404	200.044	0.00#	
10,373	169,113	85,254	11,845	57,149	46,124	309,241	8,385	38,064
18,807	149,343	12,124	5,448	14,532	11,014	58,617	15,500	20,000
	117,010						10,000	20,000
37,981	342,978	110,760	10,253	43,195	56,957	132,967	27,244	65,053
								5 261
								5,264
56,788	492,321	122,884	15,701	57,727	67,971	191,584	42,744	79,789
				100.000				
84,198	2,983,602	213,703	27,551	122,998	114,110	527,630	105,639	121,870
29,491	458,462	58,774	7,956	33,993	45,814	162,497	36,448	25,784
334	3,311	112	82	274	241	1,386	706	876
29,825	461,773	58,886	8,038	34,267	46,055	163,883	37,154	26,660
15,378	307,567	32,999	5,325	23,127	31,406	101,184	19,441	. 13,997
13,378								
2,401	32,304	5,233	380	2,684	2,949	16,232	1,196	6,271
3,081	91,336	6,053	356	2,445	3,266	21,607	2,615	4,596
3,043	35,320	1,204	440	4.054	1 601	1,473	5,877	55
1,632	14,548	3,185	440	1,856	1,601	5,919	1,699	2,111
25,535	481,075	48,674	6,501	30,112	39,222	146,415	30,828	27,030
4 200	10.202	10.212	1 527	4 155	6 922	17.469	6.326	370
4,290	19,302	10,212	1,537	4,155	6,833	17,468	6,326	370
325	12,033	764	84	439	631	1,667	360	351

					1	
Municipality	Chalk	Chatham	Chatsworth	Chesley	Chesterville	Chippawa
Population	River 986	22,352	394	1,650	1,229	2,380
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 51,926 9,637	\$ 2,247,882 450,438	\$ 28,776 7,014	\$ 100,117 31,344	\$ 62,130 14,207	\$ 145,008 27,817
Net fixed assets	52,289	1,797,444	21,762	68,773	47,923	117,191
CURRENT ASSETS Cash on hand and in bank Investment in government securities Accounts receivable	10,137 4,916	50,799 140,000 384,553	3,470 6,000 278	8,403 17,000 562	20,356 6,000 2,437	6,116 42,961
Total current assets OTHER ASSETS	15,053	575,352	9,748	25,965	28,793	49,077
Inventory of stores, tools and equip- ment at cost less depreciation Sinking fund on local debentures Miscellaneous	1,061 2,633	254,807 3,527	228	2,841	748	1,412
Total other assets	3,694 6,799	258,334 1,511,245	228 20,784	2,841 130,896	1,248 96,228	1,412 66,538
	77,835	4,142,375	52,522	228,475	174,192	234,218
LIABILITIES Debentures outstandingAccounts payable. Other	52,000	816,474 150,661 16,795	371 140	40	3,855 142	35,000 2,907 31,500
Total liabilities	52,160	983,930	511	40	3,997	69,407
RESERVES Equity in Ontario Hydro Systems Other	6,799	1,511,245 63,576	20,784	130,896	96,228	66,538 35
Total reserves	6,799	1,574,821	20,784	130,896	96,228	66,573
Debentures redeemed		703,526	5,014	24,410	5,889	13,350
plant or held as working funds. Frequency standardization expense charged this year	15,876	880,098	26,213	73,129	68,078	84,888
Total capital	18,876	1,583,624	31,227	97,539	73,967	98,238
	77,835	4,142,375	52,522	228,475	174,192	234,218
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other	27,870 3	1,147,137 12,673	13,268	56,461 552	55,861 376	57,078 532
Total revenue	27,873	1,159,810	13,502	57,013	56,237	57,610
EXPENSE Power purchased	11,240	544,133	9,920	39,832	40,076	34,361
Local generation Operation and maintenance Administration Fixed charges—interest and principal	1,009 1,866 4,451	250,977 154,396 74,468	1,385 1,043	3,673 5,193	4,537 2,608	3,543 4,467 785
—depreciation —other	1,544	58,229	798	3,160	1,720	3,636
Total expense	20,110	1,082,203	13,146	51,858	48,941	46,792
Net income or net expense	7,763	77,607	356	5,155	7,296	10,818

	1		[1	l .			
Clifford	Clinton	Cobden	Cobourg	Colborne	Coldwater	Colling- wood	Comber	Cookstown
538	2,970	877	8,919	1,228	720	8,302	570	662
4								
\$ 40,136	\$ 218,173	\$ 55,465	\$ 777,274	\$ 80,477	\$ 50,096	\$ 440.676	\$	\$
5,202	35,655	6,131	156,131	7,868	11,329	442,676 85,431	48,497 10,096	45,619 6,992
34,934	182,518	49,334	621,143	72,609	38,767	357,245	38,401	38,627
4,747	58,067	5,488	57,532	1,304	8,242	36,449	2,182	8,260
3,000 382	916	18,000 710	10,000 25,443	2,774	12,500 1,000	11,000 3,512	232	226
8,129	58,983	24,198	92,975	4,078	21,742	50,961	2,414	8,492
104	(0%)	004	22.054	42 507	420	25.425		
184	6,956	981	33,854	13,507	420	36,435	712	125
16	2,037		387			31	4	419
200 30,123	8,993 179,830	981 21,422	34,241 370,286	13,507 39,100	420 46,181	36,466 512,760	716 54,566	544 22,861
73,386	430,324	95,935	1,118,645	129,294	107,110	957,432	96,097	70,524
6,424	63,300						2,940	
1,006 336	432 8,129	125	52,672 11,459	9,864 3,368	64 155	1,198 6,613	209	352 500
7,766	71,861	125	64,131	13,232	219	7,811	3,149	852
30,123	179,830	21,422	370,286	39,100	46,181	512,760	54,566	22,86
	89				136	100	25	93
30,123	179,919	21,422	370,286	39,100	46,317	512,860	54,591	22,954
8,521	60,200	4,949	105,994	12,195	6,867	38,183	9,760	12,00
26,976	118,344	69,439	578,234	64,767	53,707	398,578	30,982	34,717
							2,385	
35,497	178,544	74,388	684,228	76,962	60,574	436,761	38,357	46,718
		95,935	1,118,645	129,294	107,110	957,432	96,097	70,524
73,386	430,324	95,935	1,118,043	127,274	107,110	737,432	90,097	70,329
20,024 558	125,718 2,433	23,007 347	430,996 1,438	44,182 1,071	26,582 551	299,913 2,177	19,963	17,642 104
20,582	128,151	23,354	432,434	45,253	27,133	302,090	19,971	17,746
20,362	126,131	23,334	102,101		27,100			17,710
13,746	74,807	15,960	270,733	26,740	17,342	218,212	10,892	12,247
1,885	10,998	1,184	22,617	2,713	2,135	19,538	1,487	1,111
1,299	10,433	1,887	32,570	6,243	1,618	16,711	2,555	1,097
567 985	6,735 5,556	1,279	1,932 19,801	241 1,745	1,422	11,242	. 419 1,293	1,142
		1,217						
18,482	108,529	20,310	347,653	37,682	22,539	265,703	16,646	15,597
2,100	19,622	3,044	84,781	7,571	4,594	36,387	3,325	2,149
216	1,153	370	3,126	529	257	2,933	235	246

Municipality	Cottam	Courtright	Creemore	Dashwood	Deep River	Delaware
Population	629	567	884	382	4,403	419
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 48,863 10,139	\$ 23,852 4,139	\$ 42,042 7,089	\$ 26,688 4,000	\$ 530,358 76,045	\$ 20,400 6,407
Net fixed assets	38,724	19,713	34,953	22,688	454,313	13,993
CURRENT ASSETS Cash on hand and in bank Investment in government securities Accounts receivable	1,858 3,000 105	1,330 4,000 291	2,561 10,000 744	1,024 96	11,817 18,423	3,230
Total current assetsOTHER ASSETS Inventory of stores, tools and equip-		5,621	13,305	1,120	30,240	3,533
ment at cost less depreciation. Sinking fund on local debentures Miscellaneous	378	159 3,034	300		25,913 6,367	55 150
Total other assets Equity in Ontario Hydro Systems	485 19,597	3,193 19,371	848 42,099	30,838	32,280	205 15,969
	63,769	47,898	91,205	54,646	516,833	. 33,700
LIABILITIES Debentures outstandingAccounts payableOther	3,000 229 652	2,830 397	790 619	341	195,000 14,726 8,472	349 30
Total liabilities	3,881	3,227	1,409	341	218,198	379
RESERVES Equity in Ontario Hydro Systems Other	19,597 26	19,371 80	42,099 58	30,838		15,969 23
Total reserves	19,623	19,451	42,157	30,838		15,992
Debentures redeemed	11,000	8,138	2,824	3,400		4,000
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	29,265	17,082	44,815	20,067	298,635	13,329
charged this year	40.265	05.000	47.620	02.467	200 (25	47 220
Total capital	40,265	25,220	47,639	23,467	298,635	17,329
***************************************	63,769	47,898	91,205	54,646	516,833	33,700
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy Other	13,991 120	8,287 237	24,159 302	13,779	53,180 70	12,961 2
Total revenue	14,111	8,524	24,461	13,782	53,250	12,963
EXPENSE Power purchased	7,986	6,285	17,352	10,158	38,802	8,454
Local generation Operation and maintenance	1,213	1,162	2,130	2,260	7,318	1,135
AdministrationFixed charges—interest and principal	1,583	998	1,599	1,448	6,755 7,518	1,139
—depreciation —other	1,279	611	1,080	630	5,594	634
Total expense	12,707	9,056	22,161	14,496	65,987	11,363
Net income or net expense	1,404	532	2,300	714	12,737	1,600
Number of customers	234	195	356	174	1 264	137
Number of customers	234	195	330	1/4	1,264	137

Delhi	Deseronto	Dorchester	Drayton	Dresden	Drumbo	Dublin	Dundalk	Dundas
3,189	1,798	800	586	2,203	352	256	853	10,597
\$ 248,855 46,622	\$ 107,525 23,534	\$ 49,962 10,484	\$ 46,264 8,468	\$ 150,847 20,038	\$ 27,101 9,555	\$ 30,336 6,173	\$ 48,603 10,844	\$ 646,147 128,918
202,233	83,991	39,478	37,796	130,809	17,546	24,163	37,759	517,229
952 10,000 2,033	1,398 16,000 5,123	1,754 1,500 194	4,894 6,000 221	13,451 21,000 3,810	2,098 5,500 994	1,257 1,300 34	8,816 6,500 414	17,059 9,000 4,933
12,985	22,521	3,448	11,115	38,261	8,592	2,591	15,730	30,992
30,378	13,255	323	549	10,198			339	29,294
29	724			11,089	2,541			281
30,407 81,495	13,979 48,005	323 29,061	549 43,048	21,287 119,727	2,541 24,865	18,983	339 49,921	29,575 522,690
327,129	168,496	72,310	92,508	310,084	53,544	45,737	103,749	1,100,486
4,010 8,378 3,985	171 1,168	2,499 223 303	286	25,981 802 2,768	97 106	51 55	76 50	173,100 8,862 12,748
16,373	1,339	3,025	311	29,551	203	106	126	194,710
81,495 75	48,005	29,061	43,048	119,727 568	24,865	18,983	49,921	522,690 281
81,570	48,005	29,061	43,048	120,295	24,865	18,983	49,921	522,971
80,990	15,000	4,801	9,500	25,442	4,500	6,200	5,727	74,900
167,040	104,152	35,423	39,649	134,796	23,976	20,448	47,975	307,905
18,853								
229,177	119,152	40,224	49,149	160,238	28,476	26,648	53,702	382,805
327,120	168,496	72,310	92,508	310,084	53,544	45,737	103,749	1,100,486
138,627 1,583	48,595 1,080	18,698 241	20,514 185	77,960 3,485	11,933 233	12,790 42	30.962 211	358,891 1,280
140,210	49,675	18,939	20,699	81,445	12,166	12,832	31,173	360,171
82,568	32,342	12,485	11,891	43,649	8,992	7,829	19,037	213,086
10,519	5,432	689	980	10,806	441	628	3,637	51,021
12,367 6,158	6,749	1,917 244	1,696 11	15,101 3,921	979 2	902	2,910	24,140 14,921
6,347	2,947	1,340	1,281	3,609	541	832	1,354	17,042
117,959	47,470	16,675	15,859	77,086	10,955	10,191	26,938	320,210
	2,205	2,264	4,840	4,359	1,211	2,641	4,235	39,961
22,251	2,200							

Municipality	Dunnville	Durham	Dutton	East York	Eganville	Elmira
Population	5,092	2,065	783	Twp. 68,312	1,570	2,890
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	* \$ 328,119 59,758	\$ 128,008 14,631	\$ 41,149 14,325	\$ 3,394,391 491,414	\$ 148,038 32,258	\$ 299,900 66,24
Net fixed assets	268,361	113,377	26,824	2,902,977	115,780	233,663
CURRENT ASSETS Cash on hand and in bank	16,260	10,298	2,833	215,545	6,368	7,29
Investment in government securities Accounts receivable	2,265	4,000 699	5,500 584	400,000 113,555	10,000 317	1,020
Total current assetsOTHER ASSETS	18,525	14,997	8,917	729,100	16,685	8,31
Inventory of stores, tools and equip- ment at cost less depreciation	41,611	5,036	232	81,904	5,107	5,52
Sinking fund on local debentures Miscellaneous	1,056		4,841	54,645 8,585	1,993	203
Total other assets Equity in Ontario Hydro Systems	42,667 269,290	5,036 111,201	5,073 63,029	145,134 1,731,902	7,100 4,992	5,724 292,872
	598,843	244,611	103,843	5,509,113	144,557	540,578
I I A DII I I I I I I I I I I I I I I I						
LIABILITIES Debentures outstanding Accounts payable Other	57,610 9,009 6,676	126 1.079	1,918 262	676,017 146,454 42,871	52,447	1,060
Total liabilities	73,295	1,205	2,180	865,342	52,447	2,96
RESERVES Equity in Ontario Hydro Systems Other	269,290	111,201	63,029	1,731,902 13,661	4,992	292,87
Total reserves	269,290	111,201	63,029	1,745,563	4,992	292,87
CAPITAL Debentures redeemed Local sinking fund	82,890	25,324	8,408	602,715 54,645	47,553	37,169
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	173,368	106,881	30,226	2,240,848	39,565	207,57
charged this year						
Total capital	256,258	132,205	38,634	2,898,208	87,118	244,742
	598,843	244,611	103,843	5,509,113	144,557	540,578
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other	211,078 692	83,622 535	21,181 100	1,804,901 15,886	47,310 381	163,136 1,119
Total revenue	211,770	84,157	21,281	1,820,787	47,691	164,25
EXPENSE Power purchased	137,620	52,118	14,930	1,255,832	14,125	121,222
Local generation Operation and maintenance	28,056	9,607	1,778	116,846	10,459 2,866	10,14
Administration	11,705 5,652	5,998	2,051	148,176	5,284	9,000
—depreciation	8,548	2,965	824	78,901 83,110	7,035 3,877	8,249
—other	101 701					
Total expense	191,581	70,694	19,591	1,682,865	43,646	148,65
Net income or net expense	20,189	13,463	1,690	137,922	4,045	15,598

Elmvale	Elmwood	Elora	Embro	Erieau ,	Erie Beach	Erin	Essex	Etobicoke
917 -	V. A.	1,468	542	451	96	996	3,480	Twp. 121,258
\$ 60,184 15,413	\$ 22,354 5,853	\$ 89,480 29,215	\$ 42,719 12,925	\$ 70,412 9,513	\$ 19,500 1,537	\$ 47,809 4,289	\$ 208,309 51,815	\$ 10,951,713 986,033
`44,771	16,501	60,265	29,794	60,899	17,963	43,520	156,494	9,965,680
10,012	1,669	12,128	4,190 6,500	16,250	1,536	10,964	9,439	39,096 · 537,000
9,858 545	8,000 106	489	462	727	211	452	1,305	208,770
20,415	9,775	12,617	11,152	16,977	1,747	11,416	10,744	784,866
4,204	271	4,569		1,282	547	485	16,442	378,366
		187		395		258	44	253,816 182,854
4,204 52,334	271 17,637	4,756 122,507	39,326	1,677 32,459	547 6,047	743 10,299	16,486 133,072	815,036 2,305,080
121,724	44,184	200,145	80,272	112,012	26,304	65,978	316,796	13,870,662
		5,900	4460	13,779	4,168 632	5,800	9,900 221	6,568,929 78,773
3,130 180	30 55	191 1,149	4,160 100	1,029	270	726	2,051	278,754
3,310	85	7,240	4,260	14,808	5,070	6,533	12,172	6,926,456
52,334 80	17,637	122,507	39,326	32,459 21	6,047 81	10,299 36	133,072 128	2,305,080 12,053
52,414	17,637	122,507	39,326	32,480	6,128	10,335	133,200	2,317,133
6,544	6,106	14,100	7,500	8,104	4,132	8,700	27,600	1,153,495 253,816
59,456	20,356	56,298	32,004	56,789	11,049	40,410	143,824	3,219,762
			2,818	169	75			
66,000	26,462	70,398	36,686	64,724	15,106	49,110	171,424	4,627,073
121,724	44,184	200,145	80,272	112,012	26,304	65,978	316,796	13,870,662
26,237 325	7,910 403	47,642 162	20,485 197	27,929 476	5,322 1	27,306 156	100,663 479	5,166,396 23,905
26,562	8,313	47,804	20,682	28,405	5,323	27,462	101,142	5,190,301
19,241	6,184	30,161	13,282	15,078	2,196	17,950	55,356	3,201,345
2,333	488	7,306	2,566	3,146	219	3,015	12,469	333,059
3,655	1,083	2,811	495 17	2,248 1,896	755 632	1,968 937	12,735 2,032	274,559 553,276
1,700	666	669 2,850	1,278	1,729	429	1,092	6,280	231,623
		42 505	15 (20	24.007	4 221	24,962	88,872	4,593,862
26,929	8,421	43,797	17,638	24,097	4,231	24,702	30,072	2,230,032
367	108	4,007	3,044	4,308	1,092	2,500	12,270	596,439
377	135	532	228	320	134	394	1,183	42,685

Municipality	Exeter	Fergus	Finch	Flesherton	Fonthill	Forest '
Population	2,758	3,725	413	480	2,100	2,025
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	\$ 187,176 51,922	\$ 255,690 38,840	\$ 35,232 7,194	\$ 33,412 9,196	\$ 134,081 . 18,960	\$ 112,778 38,409
Net fixed assets	135,254	216,850	28,038	24,216	115,121	74,369
CURRENT ASSETS Cash on hand and in bank Investment in government securities Accounts receivable	11,431 10,000 2,684	18,270	14,000 396	5,586 16,000 103	1,366 1,442	14,751 38,348 1,513
Total current assets	24,115	21,750	14,396	21,689	2,808	54,612
Inventory of stores, tools and equip- ment at cost less depreciation Sinking fund on local debentures	9,985	8,692	. 175	91	278	12,410
Miscellaneous	120	91	400			171
Total other assets Equity in Ontario Hydro Systems	10,105 174,034	8,783 269,469	575 19,515	91 24,194	278 44,610	12,581 134,830
	343,508	516,852	62,524	70,190	162,817	276,392
LIABILITIES						
Debentures outstanding Accounts payable Other	266 2,222	27,000 215 3,299	1,445 227	405 164	22,550 1,492 9,064	· 540 1,240
Total liabilities	2,488	30,514	1,672	569	33,106	1,780
RESERVES Equity in Ontario Hydro Systems Other	174,034 180	269,469	19,515	24,194	44,610	134,830
Total reserves	174,214	269,469	19,515	24,194	44,610	134,830
CAPITAL Debentures redeemed	20,000	48,000	7,000	5,831	38,950	23,357
Local sinking fund	146,806	168,869	34,337	39,596	46,296	116,425
charged this year					145	
Total capital	166,806	216,869	41,337	45,427	85,101	139,782
	343,508	516,852	62,524	70,190	162,817	276,392
B. OPERATING STATEMENTS REVENUE						
Sales of electric energyOther	116,392 1,047	176,795 368	10,065 555	13,266 628	62,802 1,189	72,319 1,228
Total revenue	117,439	177,163	10,620	13,894	63,991	73,547
EXPENSE						
Power purchased	73,643	120,975	7,777	10,164	38,102	48,948
Operation and maintenance Administration	13,478 15,628	13,187 8,095	1,301 1,105	1,067 1,067	3,052 3,755	8,734 7,871
Fixed charges—interest and principal —depreciation	5,557	3,147 6,457	947	1 988	4,823 3,243	2,175
—other						
Total expense	108,306	151,861	11,130	13,287	52,975	67,728
Net income or net expense	9,133	25,302	510	607	11,016	5,819
Number of customers	1,162	1,297	188	236	720	863

Forest Hill	Frankford	Galt	Georgetown	Glencoe	Goderich	Grand Bend	Grand Valley	Granton
19,992	1,631	25,102	8,200	1,105	6,011	876 .	. 667	296
\$ 1,443,901	\$ 74,153	\$ 2,329,035	\$ 679,670	\$ 101,626	\$ 562,741	\$ 113,633	\$ 43,754	\$ 13,867
406,638	10,407	710,603	74,368	25,440	128,291	24,463	13,503	2,943
1,037,263	63,746	1,618,432	605,302	76,186	434,450	. 89,170	30,251	10,924
249,445	20,607	69,935 90,000	71,926 4,000	50 10,700	84,174 36,000	3,164	5,616 5,500	4,190
74,000 13,150	524	12,129	3,319	487	17,913	2,138	1,022	71
336,595	21,131	172,064	79,245	11,237	138,087	5,302	12,138	4,261
73,772		127,020	63,089	2,527	18,901	11,396	429	
83		1,814	535	299	8,540	110	148	42
73,855 897,492	13,962	128,834 2,047,716	63,624 425,814	2,826 67,666	27,441 448,121	11,506 31,469	57.7 45,927	42 23,469
2,345,205	98,839	3,967,046	1,173,985	157,915	1,048,099	137,447	88,893	38,696
2,043,203	70,007	0,707,010	1,170,700		2,020,077			
F 076	2 000	171 500	240.002		92,000	73,920		1,332
5,276 42,296	2,000	171,500 1,621	340,002 3,902	387	20,228	4,538	1,726	208
37,001	1,264	49,394	28,388	605	10,775	941		40
84,573	3,264	222,515	372,292	992	123,003	79,399	1,726	1,580
897,492 602	13,962	2,047,716 6,869	425,814 3,206	67,666 301	448,121 515	31,469 106	45,927	23,469
898,094	13,962	2,054,585	429,020	67,967	448,636	31,575	45,927	23,524
352,933	18,000	646,502	51,890	20,113	129,088	11,080	10,794	5,312
1,009,605	63,613	1,043,444	320,783	. 68,843	347,799	15,393	30,446	8,280
					427			
1,362,538	81,613	1,689,946	372,673	88,956	476,460	26,473	41,240	13,592
2,345,205	98,839	3,967,046	1,173,985	157,915	1,048,099	137,447	88,893	38,696
753,671 10,676	34,749 494	1,088,254 6,274	356,786 2,538	33,692 985	280,207 1,309	54,409 157	23,365 148	7,553 5
764,347	35,243	1,094,528	359,324	34,677	281,516	54,566	23,513	7,558
435,033	17,955	706,237	221,232	20,817	183,038	27,994	17,594	4,109
49,310 58,454	2,119 3,605	107,419 61,231	13,591 28,263	4,729 4,166	19,868 21,853	9,109 6,454	1,309 1,313	803 1,005
2,820	2,123	34,224	29,330	7,100	9,400	6,821		307
42,171	1,797	71,271	15,444	2,897	16,376	3,147	1,359	379
587,788	27,599	980,382	307,860	32,609	250,535	53,525	21,575	6,603
176,559	7,644	114,146	51,464	2,068	30,981	1,041	1,938	955
6,913	554	8,336	3,005	474	2,239	812	323	118
0,913	334	0,330	5,005		2,207			

				1	1	1
Municipality	Gravenhurst	Grimsby	Guelph	Hagersville	Hamilton	Hanover
Population	3,075	4,501	35,787	2,106	248,946	4,162
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 206,448 46,636	\$ 241,605 35,975	\$ 2,715,308 432,137	\$ 117,413 31,272	\$ 19,525,656 1,641,988	\$ 284,624 88,573
Net fixed assets	159,812	205,630	2,283,171	86,141	17,883,668	196,051
CURRENT ASSETS Cash on hand and in bank Investment in government securities Accounts receivable	8,192 42,000 2,697	150 17,000 860	363 12,375	782 18,000 82	1,251,353 1,041,039	40 67,000 4,029
Total current assetsOTHER ASSETS	52,889	18,010	12,738	18,864	2,292,392	.71,069
Inventory of stores, tools and equip- ment at cost less depreciation	12,597	3,840	152,053	5,036	895,945	29,114
Sinking fund on local debentures Miscellaneous		200	4,699	13,467	11,524	
Total other assets Equity in Ontario Hydro Systems	12,597 165,920	4,040 89,698	156,752 2,399,719	18,503 247,102	907,469 23,321,781	29,114 303,538
	391,218	317,378	4,852,380	370,610	44,405,310	599,772
I TARILIMIEC						
LIABILITIES Debentures outstandingAccounts payable. Other	12,465 2,259	25,870 15,642	694,000 171,575 56,296	17 1,330	1,239,000 1,027,786 103,404	592 2,494
Total liabilities	14,724	41,512	921,871	1,347	2,370,190	3,086
RESERVES Equity in Ontario Hydro Systems Other	165,920 390	89,698	2,399,719 14,550	247,102	23,321,781 265,579	303,538
Total reserves	166,310	89,698	2,414,269	247,102	23,587,360	303,538
Debentures redeemed	44,279	85,344	301,000	8,000	6,446,275	80,162
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	165,905	100,824	1,325,522	114,161	12,005,985	212,986
charged this year			110,282		4,500	
Total capital	210,184	186,168	1,516,240	122,161	18,447,760	293,148
	391,218	317,378	4,852,380	370,610	44,405,310	599,772
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other	113,232 2,598	139,918 551	1,385,782 7,276	94,038 544	13,082,986 96,177	146,837 4,833
Total revenue	115,830	140,469	1,393,058	94,582	13,179,163	151,670
EXPENSE Power purchased	89,320	97,357	958,850	69,722	9,614,151	113,490
Local generationOperation and maintenance	10,694	5,020	124,603	10,939	913,641	13,482
AdministrationFixed charges—interest and principal		12,996 687	102,095 65,693	4,976	698,130 114,038	14,782
—depreciation —other	5,515	5,801	69,608	3,324	440,680	5,362
Total expense	113,963	121,861	1,320,849	88,964	11,780,640	147,116

Harriston	Harrow	Hastings	Havelock	Hawkesbury	Hensall	Hespeler	Highgate	Holstein
1,637	1,828	902	1,288	8,359	783	4,109	400	170
\$ 129,161 24,029	\$ 164,507 30,868	\$ 63,901 20,403	\$ 77,913 19,488	\$ 469,861 67,995	\$ 100,945 24,829	\$ 313,067 28,533	\$ 29,344 <i>9,853</i>	\$ 11,549 <i>2,496</i>
105,132	133,639	43,498	58,425	401,866	76,116	284,534	19,491	9,053
14,368	3,334 11,000 390	12,643 7,000 163	4,578 37,000 2,445	10,732	2,142 4,000 2,027	62,166 20,000 29,142	1,150 3,000 355	2,131 1,000 5
16,025	14,724	19,806	44,023	12,729	8,169	111,308	4,505	3,136
4,388	7,738	1,189	246	27,973	584	14,964		210
110	554		990	1,133	74	699	718	
4,498 126,617	8,292 114,601	1,189 22,885	1,236 44,651	29,106 25,772	658 64,011	15,663 481,860	718 30,381	210 9,470
252,272	271,256	87,378	148,335	469,473	148,954	893,365	55,095	21,869
3,300 31 1,684	944 1,285	770	19,500 392	225,000 678 4,510	15 230		2,594 140	43
5,015	2,229	770	19,892	230,188	245	3,719	2,734	43
126,617	114,601 59	22,885	44,651	25,772	64,011 67	481,860	30,381	9,470
126,617	114,660	22,885	44,651	25,772	64,078	481,860	30,381	9,470
27,518	12,000	21,000	43,400	60,000	12,000	77,571	5,000	2,762
93,122	142,367	42,723	40,392	153,513	72,631	330,215	17,837	9,594
							857	
120,640	154,367	63,723	83,792	213,513	84,631	407,786	21,980	12,350
252,272	271,256	87,378	148,335	469,473	148,954	893,365	55,095	21,869
66,018 1,108	80,422 405	26,797 376	33,816 1,370	177,819 574	41,848 351	221,951 4,355	11,501 162	5,055
67,126	80,827	27,173	35,186	178,393	42,199	226,306	11,663	5,080
45,864	48,223	13,191	15,546	71,425	28,956	165,363	8,004	3,653
6,408	7,598	1,561	2,628	20,163	998	15,392	990	232
5,032 674	6,765	3,978	3,871 2,239	29,636 20,575	2,074	7,470	783 101	650
3,464	4,352	2,010	2,231	11,488	2,757	7,088	937	318
61,442	66,938	20,740	26,515	153,287	34,785	195,313	10,815	4,85
5,684	13,889	6,433	8,671	25,106	7,414	30,993	848	23
641	684	430	418	2,083	338	1,323	163	92

Municipality	Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville	Kincardin
Population	3,286	6,957	988	736	1,829	2,669
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 185,619 35,212	\$ 530,341 107,837	\$ 174,346 3,896	\$ 53,018 13,312	\$ 105,022 21,120	\$ 193,916 48,926
Net fixed assets	150,407	422,504	170,450	39,706	83,902	144,990
Cash on hand and in bank Investment in government securities Accounts receivable		4,782	6,048 16,000 203	5,419	12,510 12,000 2,934	14,231 32,000 1,441
Total current assetsOTHER ASSETS Inventory of stores, tools and equip-	28,063	4,882	22,251	5,703	27,444	47,672
ment at cost less depreciation Sinking fund on local debentures		29,745	6,682	113	11,613	6,123
Miscellaneous		523		4,093		82
Total other assets Equity in Ontario Hydro Systems	11,602 245,900	30,268 636,390	6,682 29,718	4,206 49,671	11,613	6,205 177,439
	435,972	1,094,044	229,101	99,286	216,827	376,306
LIABILITIES						
Debentures outstanding	57 1,946	59,168 6,317 21,857	173 1,341	1,201	64 721	186
Total liabilities	2,003	87,342	1,514	1,201	785	1,10
RESERVES Equity in Ontario Hydro Systems Other	245,900	636,390 96	29,718	49,671	93,868 551	177,43
Total reserves	245,903	636,486	29,718	49,671	94,419	177,47
Debentures redeemed	15,697	100,632		10,500	19,507	60,00
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	172,369	293.498	197,869	37,914	102,116	137,72
charged this year		23 914				
Total capital			197,869	48,414	121,623	197,72.
	435,972	1,094,044	229,101	99,286	216,827	376,30
B. OPERATING STATEMENTS REVENUE						
Sales of electric energyOther	142,076 545	287,840 2,365	44,521 636	17,975 8	76,670 693	103,99
Total revenue	142,621	290,205	45,157	17,983	77,363	105,41
EXPENSE Power purchased Local generation	94,319	178,695	27,764	12,885	48,430	79,41
Operation and maintenance	13,890 9,493	26,374 31.614	5,082 5,612	515 1,660	9,792 5,249	12,486
Fixed charges—interest and principal —depreciation —other	180 4,623	7,564 16,672	2,510	1,603	2,852	5,700
		260,919	40,968	16,663	66,323	103,628
Total expense	122,505	200,717				
Total expense	20,116	29,286	4,189	1,320	11,040	1,790

Kingston Kingstylle Kirkfield Kirchener Lakefield Lambeth Lamaric Lancarrer La Salle 47,882 3,010 132 66,547 2,096 1,678 925 628 2,942*									
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Kingston	Kingsville	Kirkfield	Kitchener	Lakefield	Lambeth	Lanark	Lancaster	La Salle
### ### ### ### ### ### ### ### ### ##	47,882	3,010	132	66,547	2,006	1.678	925	623	2.942*
### ### ### ### ### ### ### ### ### ##									
\$1.00,007	S	ŝ	S	8	8	8			3
\$233.081	4.268.456	204.184	18.079	7,792.227	121.594	78.521	37.489	25.341	20%,855
294,651 54,100 585 45112 11.080 95.482 6.901 9.500 1.2016 6.5000 95.500 2.0016 4.888 1.500 1.0016 4.888 1.2016 6.5000 9.5000 1.0016 4.888 1.2016 58.672 1.500 8.5000 9.5000 4.888 1.2016 58.672 1.500 8.5000 9.5000 4.888 1.2016 1	1.036.375	49.777	3.377	1,340,881	36,042	17,191	5.992	7.853	34,23
1.50,000 38,500 6,300 6,500 3.000 3.000 3.000 4.408	5 232 081	154 407	14 793	6 451 346	85 550	61.390	30 497	17 533	172 618
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148,266				393 300		8 166			4.44.8
217 085	1.119,890	53.679	2 561	337 972	82 687	18 648	26.648	13 164	10/163
1.66,254 10,974 736 370,117 7,996 10,996 605 33 6,192	148 160	10, 250	45	252 7614	7 006	901	E _i n s		4.100
466,254		2000		111111111111111111111111111111111111111					
1.434.334 159.120 10.588 4.953.059 75.121 45.772 25.370 20.453 71.742 6.252.559 378,174 28.587 12.112.494 251.356 136.746 84.178 50.282 261.464 1.464.000	211 955			12/12/		54.5			
1.464.000									
138.695 5.909 11 239.748 224 12.104 29.404 29.404 106.829 3.660 6 103.794 838 995 226 46.5 2.129 1.709.534 9.596 01 10.599.840 0.069 06.889 0.00 46.8 81.888 1.488.81 1.881 1.00 1.00.888 1.888.81 1.881 1.00 1.00	6,252,559	378,174	28,587	12,112,494	251.356	136.746	84.170	50.282	261.464
138.695 5.909 11 239.748 224 12.104 29.404 29.404 106.829 3.660 6 103.794 833 995 226 46.5 2.129 1.709.534 9.596 01 10.599.840 0.069 06.889 0.06 46.8 81.688 10.688 10.484.633 389 200 171.059 10.505 45.170 25.510 00.458 71.742 10.4853 389 200 171.059 10.505 54 10.750 10.4853 389 200 171.059 10.505 54 10.4853 389 200 171.059 10.505 54 10.4853 389 200 171.059 10.505 54 10.4853 389 200 10.788 5.130.109 76.486 45.826 25.370 20.453 71.742 340.839 33.500 5.766 1.530.350 33.500 17.219 7.316 8.017 15.500 10.683 33.500 5.766 1.530.350 33.500 17.219 7.316 8.017 15.500 10.653.231 175.500 10.783 5.832.048 10.813 45.501 56.258 20.449 142.089 10.653.231 175.500 10.660 10.660 10.660 10.783 5.832.048 10.831 10.540 58.574 20.860 158.190 16.252.559 378.174 28.587 10.112.494 251.356 136.746 84.170 50.282 20.4494 1.806.405 26.484 2.554 7.3 46.305 2.316 5 863 444 2.53 1.832.889 97.421 6.198 3.349.143 58.587 45.110 10.668 12.459 75.779 1.084.973 80.086 3.424 1.820.000 80.004 1.570 2.507 1.584 1.971 8.542 10.0137 8.82 10.6337 2.600 10.238 7.33 578.803 4.759 2.507 1.584 1.971 8.542 10.0137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.238 7.33 578.803 4.759 2.507 1.584 1.577 1.591 12.449 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6		-							
138.695 5.909 11 239.748 224 12.104 29.404 29.404 106.829 3.660 6 103.794 833 995 226 46.5 2.129 1.709.534 9.596 01 10.599.840 0.069 06.889 0.06 46.8 81.688 10.688 10.484.633 389 200 171.059 10.505 45.170 25.510 00.458 71.742 10.4853 389 200 171.059 10.505 54 10.750 10.4853 389 200 171.059 10.505 54 10.4853 389 200 171.059 10.505 54 10.4853 389 200 171.059 10.505 54 10.4853 389 200 10.788 5.130.109 76.486 45.826 25.370 20.453 71.742 340.839 33.500 5.766 1.530.350 33.500 17.219 7.316 8.017 15.500 10.683 33.500 5.766 1.530.350 33.500 17.219 7.316 8.017 15.500 10.653.231 175.500 10.783 5.832.048 10.813 45.501 56.258 20.449 142.089 10.653.231 175.500 10.660 10.660 10.660 10.783 5.832.048 10.831 10.540 58.574 20.860 158.190 16.252.559 378.174 28.587 10.112.494 251.356 136.746 84.170 50.282 20.4494 1.806.405 26.484 2.554 7.3 46.305 2.316 5 863 444 2.53 1.832.889 97.421 6.198 3.349.143 58.587 45.110 10.668 12.459 75.779 1.084.973 80.086 3.424 1.820.000 80.004 1.570 2.507 1.584 1.971 8.542 10.0137 8.82 10.6337 2.600 10.238 7.33 578.803 4.759 2.507 1.584 1.971 8.542 10.0137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.238 7.33 578.803 4.759 2.507 1.584 1.577 1.591 12.449 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.137 8.82 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6337 2.600 10.6	1 464 000			004 000		12 701			
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4.434.334 130 130 10,888 4.988.080 75,034 48,171 15,570 20,453 74,742 1.548.965 159,509 10,788 5,130,109 76,486 45,826 25,370 20,453 71,742 340,839 33,500 5,766 1,530,350 33,500 17,219 7,316 8,917 15,500 2,655,231 115,846 11,054 4,504,048 140,311 45,311 50,258 20,449 141,084 2,655,231 115,846 11,054 4,504,048 140,311 45,311 50,258 20,449 141,084 6,252,559 378,174 28,587 12,112,494 251,356 136,746 84,170 50,282 201,464 1,806,405 94,867 6,125 3,302,838 56,221 45,111 15,805 12,815 75,526 26,484 2,554 73 46,305 2,316 5 865 444 253 1,832,889 97,421 6,198 3,349,143 58,537							226		
1.548.965	1.70%.514	9.560	9.7	1,150 342	0,059	28 880	225	46.3	81 588
1.548.965	1.434.334	159 120	19.588	4 953 059	F5,020	45 772	15 310	20.453	71.742
340,839 33,500 5,766 1,530,350 33,500 17,219 7,316 8,917 15,500 2,653,331 115,506 03,808 4,801,808 144,313 45,311 56,258 20,445 142,804 2,604,670 20,000 040 07,782 5,832,048 1,73,811 61,540 58,574 29,586 156,189 6,252,559 378,174 28,587 12,112,494 251,356 136,746 84,170 50,282 20,1,464 1,806,405 94,867 6,125 3,302,838 56,221 45,111 15,905 12,515 75,526 26,484 2,554 73 46,305 2,316 5 363 444 253 1,832,889 97,421 6,198 3,349,148 58,587 45,110 16,868 12,459 75,779 1,084,973 50,986 5,424 1,830,000 53,804 28,206 1,804 1,907 44,35 167,906 10,238 733 378,803 4,759 2,307 1,584 1,971 8,312 220,009 14,		3.5 4	200	111 (150)	1 30 5	54			
2.655,231 175,860 13,800 4,561,863 140,311 45,311 51,358 20,445 142,684 2.644,670 200,000 17,781 5,832,048 173,811 61,540 58,574 28,580 156,180 6.252,559 378,174 28,587 12,112,494 251,350 136,746 84,170 50,282 291,494 1,806,405 94,867 6,125 3,302,838 56,221 45,111 15,905 12,515 75,526 26,484 2,554 73 46,305 2,316 5 865 444 253 1,832,889 97,421 6,198 3,349,148 58,587 45,116 16,668 12,459 75,779 1,084,973 50,086 5,424 4,830,000 50,600 2,807 1,584 1,971 8,312 167,906 10,238 733 578,803 4,759 2,507 1,584 1,971 8,312 220,000 14,476 490 197,693 8,505 3,084 1,577 1,891 12,149 10,137 8 82	1.548,965	159.509	10,788	5,130,109	76,486	45.826	25.370	20.453	71.742
2,804,000 200,000 2.7 181 5.832,043 1.73 811 02,540 58,574 29,580 158 180 6,252,559 378,174 28,587 12,112,494 251,356 136,746 54,170 50,282 201,464 1,806,405 94,867 6,125 3,302,838 56,221 45,111 15,905 12,515 75,526 26,484 2,554 73 46,905 2,316 5 863 444 253 1,832,889 97,421 6,198 3,349,143 58,537 45,116 16,668 12,450 75,779 1,684,975 60,986 3,424 1,809,000 51,819 28,126 9,609 7,921 44,435 167,906 10,238 733 578,803 4,759 2,907 1,584 1,971 8,312 220,009 14,476 490 197,693 8,505 3,084 1,577 1,901 12,149 100,137 8 82 196,537 2,690 9,007 950 466 3,912 1,688,984 90,450 5,228 2,759,	340,839	33,500	5,766	1,530,350	33,500	17.219	7.316	8.917	15.500
2,864,670 200,666 17,781 5,832,048 173,811 63,541 58,574 29,366 156,180 6,252,559 378,174 28,587 12,112,494 251,356 136,746 84,176 50,382 261,464 1,806,405 94,867 6,125 3,302,538 56,221 45,111 15,905 12,515 75,526 26,484 2,554 73 46,305 2,316 5 863 444 253 1,832,889 97,421 6,198 3,349,143 58,537 45,116 16,668 12,459 75,779 1,084,913 60,686 3,424 1,800,000 81,614 28,126 9,609 1,584 1,971 8,312 167,906 10,238 733 378,603 4,759 2,507 1,584 1,971 8,312 220,009 14,476 490 197,693 8,505 3,084 1,577 1,991 12,49 100,137 8 82 196,537 2,690 9,504 466 3,912 1,688,984 90,450 5,228 2,759,37	1 653 131	175.506	13,016	4,301,643	140.311	45.311	50,258	20 441	142 584
6,252,559 378,174 28,587 12,112,494 251,356 136,746 \$4,170 59,282 251,464 1,806,405 94,867 6,125 3,302,838 56,221 45,111 15,905 12,515 75,526 26,484 2,554 73 46,305 2,316 5 863 444 253 1,832,889 97,421 6,198 3,349,143 58,537 45,116 16,568 12,459 75,779 1,084,913 60,086 3,424 1,819,100 31,819 28,126 0,519 7,921 44,435 167,906 10,238 733 578,803 4,759 2,307 1,584 1,971 8,342 220,009 14,476 499 197,603 8,805 3,084 1,577 1,891 12,149 100,137 8 82 196,537 2,2690 2,690 466 3,912 1,688,984 90,450 5,228 2,759,378 49,530 38,444 18,750 12,249 68,508 143,905 6,971 970 589,765 9,007									
6,252,559 378,174 28,587 12,112,494 251,356 136,746 \$4,170 59,282 251,464 1,806,405 94,867 6,125 3,302,838 56,221 45,111 15,905 12,515 75,526 26,484 2,554 73 46,305 2,316 5 863 444 253 1,832,889 97,421 6,198 3,349,143 58,537 45,116 16,568 12,459 75,779 1,084,913 60,086 3,424 1,819,100 31,819 28,126 0,519 7,921 44,435 167,906 10,238 733 578,803 4,759 2,307 1,584 1,971 8,342 220,009 14,476 499 197,603 8,805 3,084 1,577 1,891 12,149 100,137 8 82 196,537 2,2690 2,690 466 3,912 1,688,984 90,450 5,228 2,759,378 49,530 38,444 18,750 12,249 68,508 143,905 6,971 970 589,765 9,007							*****	200 5000	
1,806,405	2,004,070		17.781	5 832,048	1.5.811	67.041	25.5 4	274 3/9/0	
26,484 2,554 73 46,305 2,316 5 863 444 253 1,832,889 97,421 6,198 3,349,143 58,537 45,116 16,668 12,459 75,779 1,084,973 00,086 3,424 1,519,100 31,819 18,126 0,510 10,238 733 578,803 4,759 2,307 1,584 1,971 8,312 220,009 14,476 490 197,693 8,505 3,084 1,577 1,891 12,149 100,137 8 82 196,537 2,690 2,157 950 466 3,912 1,595 5,642 490 157,325 3,647 2,137 950 466 3,912 1,688,984 90,450 5,228 2,759,378 49,530 38,444 18,730 12,249 68,508 143,905 6,971 970 589,765 9,007 6,672 2,988 710 7,271 15,013 1,229 97 20,955 691 566 313 205 8,58	6.252.559	378,174	28.587	12.112,494	251.350	136.746	\$4.1.0	59.282	201.404
26,484 2,554 73 46,305 2,316 5 863 444 253 1,832,889 97,421 6,198 3,349,143 58,537 45,116 16,668 12,459 75,779 1,684,973 60,086 3,424 1,519,100 31,619 28,126 4,649 7,921 44,135 167,906 10,238 733 578,803 4,759 2,307 1,554 1,971 8,312 220,009 14,476 490 197,693 8,505 3,084 1,577 1,891 12,149 100,137 8 82 196,537 2,690 2,159 3,647 2,137 950 466 3,912 1,688,984 90,450 5,228 2,759,378 49,530 38,444 13,730 12,249 68,508 143,905 6,971 970 589,765 9,007 6,672 2,988 710 7,271 15,013 1,229 97 20,985 691 566 313 205 8,88									
26,484 2,554 73 46,305 2,316 5 863 444 253 1,832,889 97,421 6,198 3,349,143 58,537 45,116 16,668 12,459 75,779 1,684,973 60,086 3,424 1,519,100 31,619 28,126 4,649 7,921 44,135 167,906 10,238 733 578,803 4,759 2,307 1,554 1,971 8,312 220,009 14,476 490 197,693 8,505 3,084 1,577 1,891 12,149 100,137 8 82 196,537 2,690 2,159 3,647 2,137 950 466 3,912 1,688,984 90,450 5,228 2,759,378 49,530 38,444 13,730 12,249 68,508 143,905 6,971 970 589,765 9,007 6,672 2,988 710 7,271 15,013 1,229 97 20,985 691 566 313 205 8,88	1 806 405	04.867	6.125	3.307.939	56.221	45.111	15.805	12.515	75,526
1.084.973 00.086 3.424 1.819.000 \$2.819 18.126 4.602 1.601 44.835 167.906 10.238 733 578.803 4.759 2.307 1.584 1.971 8.362 220.009 14.476 490 197.693 8.505 3.084 1.577 1.891 12.149 100.137 8 82 196.537 2.690 115.959 5.642 490 157.325 3.647 2.137 950 466 3.912 1.688.984 90.450 5.228 2.759.378 49.530 38.444 13.730 12.249 68.508 143.905 6.971 970 589.765 9.007 0.672 2.988 710 7.271 15.013 1.229 97 20.955 691 566 313 205 888							863	444	253
167,906 10,238 733 378,803 4,759 2,307 1,584 1,971 8,312 220,009 14,476 490 197,693 8,505 3,084 1,577 1,891 12,149 100,137 8 82 196,537 2,690 115,959 5,642 490 157,325 3,647 2,137 950 466 3,912 1,688,984 90,450 5,228 2,759,378 49,530 38,444 13,730 12,249 68,508 143,905 6,971 970 589,765 9,007 0,672 2,988 710 7,271 15,013 1,229 97 20,955 691 566 313 205 888	1.832,889	97.421	6.198	3.349.143	58.537	45.110	10.008	12,454	75,779
167,906 10,238 733 378,803 4,759 2,307 1,584 1,971 8,312 220,009 14,476 490 197,693 8,505 3,084 1,577 1,891 12,149 100,137 8 82 196,537 2,690 115,959 5,642 490 157,325 3,647 2,137 950 466 3,912 1,688,984 90,450 5,228 2,759,378 49,530 38,444 13,730 12,249 68,508 143,905 6,971 970 589,765 9,007 0,672 2,988 710 7,271 15,013 1,229 97 20,955 691 566 313 205 888				1					
107.300 107.300 220.000 14.476 490 197.693 8.505 3.084 1.577 1.891 12.149 100.137 8 82 196.537 2.690 2.690 466 3.912 115.959 5.642 490 157.525 3.647 2.137 950 466 3.912 1.688.984 90.450 5.228 2.759.378 49.530 88.444 18.730 12.249 68.508 143.905 6.971 970 589.765 9.607 6.672 2.938 720 7.271 15.013 1.229 97 20.955 691 566 313 205 8.88	1 084 973	ବସି ଓଡ଼ିକ	3 424	1.834.330	32,514	15 116	9.509		
220,009 14,476 490 197,693 8,805 3,084 1,577 1,891 12,149 100,137 8 82 196,537 2,690 2,690 2,690 466 3,912 115,959 5,642 490 157,325 3,647 2,137 950 466 3,912 1,688,984 90,450 5,228 2,759,378 49,530 38,444 18,780 12,249 68,508 143,905 6,971 970 589,765 9,007 6,672 2,988 710 7,271 15,013 1,229 97 20,985 691 566 313 205 8,58	167,906	10.238	733	378.803	4,759	2.307	1.584	1.971	
100.137 8 82 196.537 2.690 157.525 3.647 2.137 950 466 3.912 1.688.984 90.450 5.228 2.759.378 49.530 88.444 18.730 12.249 68.508 143.905 6.971 970 589.765 9.607 6.672 2.988 710 7.271 15.013 1.229 97 20.955 691 566 313 205 888			490		8,505		1.577	1.891	17.149
1.688.984 90.450 5.228 2.759.378 49.530 38.444 18.750 12.249 68.508 143.905 6.971 970 589.765 9.607 6.672 2.938 710 7.271 15.013 1.229 97 20.955 691 566 313 205 8.88	100.137							000	2003
143.905 6.971 970 589.765 9.607 6.672 2.988 710 7.271 15.013 1.229 97 20.955 691 566 313 205 888	115.959	5.642	490	157.325	3,647	2.137	950	406	5.912
143.905 6.971 970 589.765 9,007 6.672 2.988 710 7,271 15.013 1,229 97 20,985 691 566 313 205 888	1.688.984	90,450	5,228	2.759,378	49.530	38.444	13.734	12.249	68.508
15.013 1,229 , 97 , 20,955 691 , 566 , 313 , 205 , 8.58									
13,013	143.905	6.971	970	589,765	9,007	6.072	2,938	710	7,271
	15.013	1,229	. 97	20,955	691	. 566	313	. 205	838

^{*}Population from assessment rolls

Municipality	Leamington	Lindsay	Listowel	London	London Twp.	Long Branch
Population	8,648	10,321	3,530	99,115	V. A.	11,010
A. BALANCE SHEETS						
FIXED ASSETS	\$	\$	\$	\$	\$	\$
Plant and facilities at cost	485,216	775,046	333,233	8,655,589	131,837	546,00
Accumulated depreciation	123,209	184,742	104,971	2,230,151	27,583	44,03
Net fixed assets	362,007	590,304	228,262	6,425,438	104,254	501,96
CURRENT ASSETS						
Cash on hand and in bank	20,575	28,462	25,624	357,930	17,420	7,92
Investment in government securities			20,000	306,500	0.546	3,00
Accounts receivable	2,787	6,898	643	430,202	2,546	11,70
Total current assets	25,362	35,360	46,267	1,094,632	19,966	22,63
OTHER ASSETS						
Inventory of stores, tools and equip-		0 7 600	42.040			
ment at cost less depreciation		95,622	13,842	554,357	555	
Sinking fund on local debentures Miscellaneous	2,551		373	8,770	335	
wiscenancous	2,551					
Total other assets	54,731	95,622	14,215	563,127	890	
Equity in Ontario Hydro Systems	403,418	516,301	298,605	8,030,971	104,037	255,34
	845,518	1,237,587	587,349	16,114,168	229,147	779,94
LIABILITIES						
Debentures outstanding	30,000		51,575	472,000	24,063	
Accounts payable	894	137	353	432,194		61,50
Other	9,338	7,582	4,710	90,327	2,406	9,92
Total liabilities	40,232	7,719	56,638	994,521	26,469	71,42
RESERVES	10,232	1,119	30,030	994,321	20,409	11,72
Equity in Ontario Hydro Systems	403,418	516,301	298,605	8,030,971	104,037	255,34
Other	539			273,177	32	1,14
m	402.057	F16 201	200 (05	0.204.140	104.060	056.40
Total reserves	403,957	516,301	298,605	8,304,148	104,069	256,49
Debentures redeemed	56,000	130,000	61,615	1,759,900	27,743	40,30
Local sinking fund						
Accumulated net income invested in	1					
plant or held as working funds.	345,329	583,567	170,491	5,083,418	70,866	411,72
Frequency standardization expense				27.010		
charged this year				27,819		
Total capital	401,329	713,567	232,106	6,815,499	98,609	452,02
	845,518	1,237,587	587,349	16,114,168	229,147	779,94
B. OPERATING STATEMENTS						
REVENUE	. 293,005	399,428	148,739	3,739,463	77,282	344,92
Sales of electric energy Other	1,609	2,801	1,246	84,837	430	344,92
Total revenue	294,614	402,229	149,985	3,824,300	77,712	345,29
EXPENSE						
Power purchased		237,849	105,714	2,208,739	53,569	231,3
Local generation	25,545	57,226	11 521	122 249	4.505	30,0
Operation and maintenance Administration	29,628	36,668	11,531 10,405	432,348 305,473	4,595 5,962	26,03
Fixed charges—interest and principa		30,008	6,518	45,270	3,017	4,1.
—depreciation	. 13,665	21,823	6,233	149,092	3,608	11,7
—other						
	276,127	353,566	140,401	3,140,922	70,751	303,3
Total expense	. 2/0,12/		,	,,	,	300,00
Total expense	270,127					
·			9 584	683 378	6 961	41 0
Total expense		48,663	9,584	683,378	6,961	41,9

							1	***************************************
L'Orignal	Lucan	Lucknow	Lynden	Madoc	Magneta- wan	Markdale	Markham	Marmora
1,078	921	962	532	1,502	251	984	3,991	1,395
	s	\$	\$	\$	\$	\$	\$	\$
\$ 68,464	67,302	83,008	29,875	117,032	20,374	58,558	242,099	76,301
19,014	19,112	10,182	8,113	26,052	5,256	9,313	37,461	26,833
49,450	48,190	72,826	21,762	90,980	15,118	49,245	204,638	49,468
16,466	3,521	2,866 9,000	4,138	30,157 7,000	7,108 4,000	11,519		4,943 3,000
121	5,500 27	378	2,000 332	2,265	4,000	173	11,179	428
16,587	9,048	12,244	6,470	39,422	11,108	11,692	11,179	8,371
	452	436	221	5,176	530	134	1,106	2,180
	14	900			2,536		439	
	466	1,336	221	5,176	3,066	134	1,545	2,180
4,434	63,267	77,177	39,060	48,940	1,976	43,504	95,039	33,414
70,471	120,971	163,583	67,513	184,518	31,268	104,575	312,401	93,433
22,000 1,578		94	248		18,000	2,819	24,182 3,884	
180	731		13	1,021		442	21,703	985
23,758	731	94	261	1,021	18,000	3,261	49,769	985
4,434	63,267	77,177 280	39,060	48,940	1,976	43,504	95,039 226	33,414
4,434	63,267	77,457	39,060	48,940	1,976	43,504	95,265	33,414
6,000	11,214	17,614	4,495	14,000	. 6,000	6,370	15,119	15,092
36,279	45,759	68,418	23,697	120,557	5,292	51,440	152,248	43,942
42,279	56,973	86,032	28,192	134,557	11,292	57,810	167,367	59,034
70,471	120,971	163,583	67,513	184,518	31,268	104,575	312,401	93,433
22,088	34,039	33,388	15,180	52,779	7,632	30,380	130,638	42,349
265	311	260	242	696	181	1	976	311
22,353	34,350	33,648	15,422	53,475	7,813	30,381	131,614	42,660
9,999	22,020	26,110	9,846	26,816	3,209	21,480	84,811	25,319
2,343 2,373	2,048 2,049	2,623 3,631	541 1,430	1,943 4,609	493 585	2,754 1,740	5,687 9,176	5,241 3,444
2,151		19	2	5	1,970	1,490	3,474 5,874	1,496
2,015	1,996	1,990	909	3,213	596	1,490	3,074	1,490
18,881	28,113	34,373	12,728	36,586	6,853	27,464	109,022	35,500
				16,889	960	2,917	22,592	7,160
3,472	6,237	725	2,694	10,009	700	2,711	22,072	
329	349	452	172	581	100	409	1,250	517

Municipality	Martintown	Maxville	Meaford	Merlin	Merrick-	Merritton
Population	415	831	3,640	524	ville 882	5,842
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost		\$ 57,584	\$ 241,483	\$ 60,550	\$ 64,514	\$ 497,805
Accumulated depreciation		8,152	49,696	18,926	5,275	68,328
Net fixed assetsCURRENT ASSETS		49,432	191,787	41,624	59,239	429,477
Cash on hand and in bank Investment in government securities Accounts receivable		6,135 1,500 1,114	23,311	5,808	6,235	36,113 87,000 2,710
Total current assets	6,558	8,749	24,535	6,055	11,217	125,823
Inventory of stores, tools and equip- ment at cost less depreciation		335	14,086	672	394	50,932
Sinking fund on local debentures Miscellaneous			58		353	26
Total other assets Equity in Ontario Hydro Systems		335 35,322	14,144 156,664	672 36,042	747 10,473	50,958 1,035,842
	35,200	93,838	387,130	84,393	81,676	1,642,100
LIABILITIES Debentures outstandingAccounts payable. Other	109 81	1,045 126	3,972 4,893	211 130	17,000 1,423 790	872 2,463
Total liabilities	190	1,171	8,865	. 341	19,213	3,335
RESERVES Equity in Ontario Hydro Systems Other	9,184 81	35,322 296	156,664 100	36,042 13	10,473	1,035,842
Total reserves	9,265	35,618	156,764	36,055	10,473	1,035,842
CAPITAL Debentures redeemed Local sinking fund	5,347	13,642	47,724	13,122	8,000	. 32,186
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	20,398	43,407	173,777	37,275	43,990	570,737
charged this year				2,400		
Total capital	25,745	57,049	221,501	47,997	51,990	602,923
	35,200	93,838	387,130	84,393	81,676	1,642,100
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other	9,275 18	24,787 212	129,665 1,499	17,466 2,766	25,010 90	679,158 2,855
Total revenue	9,293	24,999	131,164	20,232	25,100	682,013
EXPENSE Power purchased	4,685	15,086	96,759	10,470	13,821	574,750
Local generation Operation and maintenance	699	1,628	10,701	1,454	1,246	22,048
Fixed charges—interest and principal —depreciation	620	1,110	10,911	4,152 1,807	2,402 1,737 1,525	27,187
—other						
Total expense	6,631	19,242	124,788	17,883	20,731	636,150
Net income or net expense	2,662	5,757	6,376	2,349	4,369	45,863

Midland	Mildmay	Millbrook	Milton	Milverton	Mimico	Mitchell	Moorefield	Morrisburg
8,348	844	805	4,915	1,082	14,338	2,174	309	2,003
\$ 574,881 224,071	\$ 42,188 5,048	\$ 49,384 8,547	\$ 421,963 69,118	\$ 74,180 14,479	\$ 821,528 181,216	\$ 200,866 51,305	\$ 20,745 5,177	\$ 110,221 12,957
350,810	37,140	40,837	352,845	59,701	640,312	149,561	15,568	97,264
23,788 190,000	476 13,000	8,162 11,000	41,020	20,915	73,235 115,000	11,441 23,056	1,136 965	42,034 11,000
54,689	13,502	19,495	3,014	188	6,303	2,406	32	1,104
268,477	13,302	19,493	44,034	21,103	194,538	36,903	2,133	54,138
15,525	342	1,311	13,479	867	20,582	26,473	132	9,066
2,446	86	1,350	737	240	1,737	485		
17,971 748,367	428 24,408	2,661 16,684	14,216 354,639	1,107 131,945	22,319 550,271	26,958 - 163,209	132 21,442	9,066 46,515
1,385,625	75,478	79,677	765,734	213,856	1,407,440	376,631	39,275	206,983
515 2,627	236	726	79,433 2,371 6,753	13,000	92,500 4,389 37,051	18,400 67 1,280	11 2	1,570 2,745
3,142	236	. 726	88,557	13,147	133,940	19,747	13	4,315
748,367 406	24,408	16,684	354,639 454	131,945	550,271 500	163,209 1,189	21,442	46,515 15,000
748,773	24,408	16,684	355,093	131,945	550,771	164,398	21,442	61,515
111,945	12,303	9,000	44,781	11,500	158,677	28,895	4,500	31,636
521,765	38,531	53,267	277,303	57,264	564,052	163,591	13,320	109,517
633,710	50,834	62,267	322,084	68,764	722,729	192,486	17,820	141,153
1,385,625	75,478	79,677	765,734	213,856	1,407,440	376,631	39,275	206,983
302,949 10,267	22,548 461	25,055	249,168 875	50,559 342	406,867 12,234	100,451 1,575	9,107 34	77,520 2,905
313,216	23,009	25,575	250,043	50,901	419,101	102,026	9,141	80,425
222,987	16,082	13,995	156,023	33,721	263,023	57,995	6,914	45,342
25,403	3,129	1,127	8,689	2,597	40,525	9,248	378	8,474
18,704	1,902	2,875	21,676 7,262	4,006 1,118	47,160 9,299	11,548 1,881	494	10,411
12,165	969	1,245	10,524	1,982	22,039	5,670	589	2,578
279,259	22,082	19,244	204,174	43,424	382,046	86,342	8,375	66,805
33,957	927	6,331	45,869	7,477	37,055	15,684	766	13,620
2,776	306	317	1,633	457	5,638	873	127	750

Municipality	Mount	Mount	Napanee	Neustadt	Newboro	Newburgh
Population	Brydges 901	Forest 2,414	4,473	495	296	565
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 47,876 8,663	\$ 139,106 32,080	\$ 259,033 60,446	\$ 35,251 12,456	\$ 27,424 4,187	\$ 44,243 15,652
Net fixed assets	39,213	107,026	198,587	22,795	23,237	28,591
CURRENT ASSETS Cash on hand and in bank Investment in government securities Accounts receivable	1,514	24,992 20,000 1,864	38,507 27,000 20,083	2,353 21,200 138	1,145 5,000 350	2,907 3,000 240
Total current assets OTHER ASSETS Inventory of stores, tools and equip-	2,397	46,856	85,590 25,326	23,691	6,495	6,147
ment at cost less depreciation Sinking fund on local debentures Miscellaneous	90	4,309	165		1,326	45
Total other assets Equity in Ontario Hydro Systems	194 27,878	4,309 134,054	25,491 218,899	24 22,014	1,326 2,393	283 5,714
	69,682	292,245	528,567	68,524	33,451	40,735
LIABILITIES						
Debentures outstanding	3,840 149	490	357 4,629	62 214	10,573 1,227 134	5,050
Total liabilities	3,989	490	4,986	276	11,934	5,276
RESERVES Equity in Ontario Hydro Systems Other	27,878 94	134,054	218,899	22,014	2,393	5,714
Total reserves	27,972	134,054	218,899	22,014	2,393	5,714
CAPITAL Debentures redeemed	4,220	21,627	70,000	15,504	6,427	8,950
Local sinking fund Accumulated net income invested in plant or held as working funds. Frequency standardization expense	33,501	136,074	234,682	30,730	12,697	20,795
charged this year						
Total capital	37,721	157,701	304,682	46,234	19,124	29,745
	69,682	292,245	528,567	68,524	33,451	40,735
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other	19,011 31	82,425 1,111	175,081 8,922	9,648 842	7,306 199	16,161 100
Total revenue	19,042	83,536	184,003	10,490	7,505	16,261
EXPENSE Power purchasedLocal generation		57,891	117,534	8,305	2,749	8,189
Operation and maintenance		6,558 5,158	17,241 25,914	649 1.873	559 918	1,695 1,590
Fixed charges—interest and principal —depreciation	93	3,740	7,191	706	1,144 688	1,344 869
other		3,740				
Total expense	18,083	73,347	167,880	11,533	6,058	13,687
Net income or net expense	959	10,189	16,123	1,043	1,447	2,574

Newbury	Newcastle	New	Newmarket	New	Niagara	Niagara	North York	Norwich
		Hamburg		Toronto		Falls	Twp.	
342	1,134	2,030	7,629	10,646	2,713	23,858	197,546	1,638
		4				Φ.		
\$ 18,421	\$ 86,952	\$ 125,486	\$ 481,118	\$ 838,520	\$ 227,424	\$ 1,899,330	\$ 15,205,380	\$ 79,246
9,195	39,919	25,954	101,836	139,077	36,157	491,348	1,724,825	23,564
9,226	47,033	99,532	379,282	699,443	191,267	1,407,982	13,480,555	55,682
5,291 6,500	7,400 10,500	10,424 10,000	39,917	74,873 30,000	7,182 10,000	150,488 55,000	604,939 10,000	25 7,500
778	3,529	1,167	8,941	15,507	2,269	27,193	111,526	2,183
12,569	21,429	21,591	48,858	120,380	19,451	232,681	726,465	9,708
12,007	21,127	21,071	10,000	120,000	.,,	202,000	120,100	2,.00
20	3,444	11,551	5,071	27,061	20,658	113,427	722,551	4,607
							220,886	
1,620		538	293	555		1,403	171,616	5,220
1,640	3,444	12,089	5,364	27,616	20,658	114,830	1,115,053	9,827
14,692	32,200	162,070	156,170	1,798,565	135,081	1,994,307	2,895,539	119,806
38,127	104,106	295,282	589,674	2,646,004	366,457	3,749,800	18,217,612	195,023
		12,000	67,651		26,653		6,717,304	
749	12		635	139	14	177	134,400	597
114		298	6,355	15,981	2,358	44,102	488,018	1,283
863	12	12,298	74,641	16,120	29,025	44,279	7,339,722	1,880
14,692	32,200	162,070	156,170	1,798,565	135,081	1,994,307	2,895,539	119,806
		34	3,031	121	405	565	21,936	77
14,692	32,200	162,104	159,201	1,798,686	135,486	1,994,872	2,917,475	119,883
0.754	14,000	20.720	27 272	8,000	53,855	690,243	1,967,553	13,756
9,754	14,000	20,729	27,273	0,000			220,886	10,730
12,818	57,894	100,151	328,559	823,198	148,091	1,020,406	5,771,976	67,335
12,010	37,074	100,131	320,337	020,170	110,071	1,020,100		
								7,831
22,572	71,894	120,880	355,832	831,198	201,946	1,710,649	7,960,415	73,260
38,127	104,106	295,282	589,674	2,646,004	366,457	3,749,800	18,217,612	195,023
6,656 255	41,656 536	76,286 466	302,251	1,033,484 7,830	101,776 774	967,139 3,120	7,775,714 30,654	58,632 372
	-						-	
6,911	42,192	76,752	302,970	1,041,314	102,550	970,259	7,806,368	59,004
4.477	04 705	AE 210	105 259	870,799	67,401	588,117	4,398,431	38,242
4,476	24,785	45,319	195,258					
1,030	4,659	7,886	21,270	36,005	11,869	128,533 70,534	420,010 602,087	8,804 6,030
512	4,785	5,339 1,520	16,323 6,429	42,842	7,443 2,581	70,334	620,902	36
445	2,005	3,402	13,010	21,278	5,675	53,818	335,738	2,414
6,463	36,234	63,466	252,290	970,924	94,969	841,002	6,377,168	55,526
						46.5	4 400 000	2.450
448	5,958	13,286	50,680	70,390	7,581	129,257	1,429,200	3,478
							66.805	660
132	450	687	2,513	3,768	1,057	7,506	66,807	669

Municipality						
	Norwood	Oakville	Oil Springs	Omemee	Orangeville	Orillia
Population	1,048	10,156	482	. 838 .	4,522	14,088
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation		\$ 1,086,813 192,524	\$ 54,407 19,801	\$ 57,345 20,359	\$ 251,706 54,416	\$ 4,165,335 791,937
Net fixed assets	71,700	894,289	34,606	36,986	197,290	3,373,398
Cash on hand and in bank Investment in government securities Accounts receivable	5,000	34,786 	6,948 11,000 65	4,942 11,000 15	70 100 2,155	315 97,780 48,531
Total current assets OTHER ASSETS		106,696	18,013	15,957	2,325	146,626
Inventory of stores, tools and equipment at cost less depreciation.	350	71,377	763	2,200	9,202	121,953
Sinking fund on local debentures Miscellaneous		6,924	209		35	1,300
Total other assets Equity in Ontario Hydro Systems		78,301 195,628	972 66,855	2,200 18,880	9,237 191,047	123,253 59,477
	132,338	1,274,914	120,446	74,023	399,899	3,702,754
Y Y A DYL IMIEC						
LIABILITIES Debentures outstandingAccounts payableOther.	473	355,000 5,388 38,283	35	74 - 206	20,936 2,728	955,000 10,718 14,124
Total liabilities		398,671	35	280	23,664	979,842
RESERVES Equity in Ontario Hydro Systems. Other	32,755	195,628 850	66,855	18,880 45	191,047 50	59,477 97,780
Total reserves	32,755	196,478	66,855	18,925	191,097	157,257
CAPITAL Debentures redeemed Local sinking fund		71,000	16,721	12,000	25,594	1,507,000
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	43,136	608,765	36,835	42,818	159,544	1,058,655
charged this year						
Total capital	98,236	679,765	53,556	54,818	185,138	2,565,655
	132,338	1,274,914	120,446	74,023	399,899	3,702,754
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other	34,117 468	519,429 5,902	15,718 1,600	22,428	141,963 654	666,324 8,245
Total revenue	34,585	525,331	17,318	22,940	142,617	674,569
EXPENSE Power purchased	18,684	306,706	9,597	13,494	103,665	148,892
Local generation Operation and maintenance		26,107	1,387	4,579	12,209	134,568 81,689
AdministrationFixed charges—interest and principa	2,444	49,426 34,955	2,950	2,296	10,806	76,285 97,665
—depreciation	2,705	27,590	1,067	1,138	6,810	76,913
—other Total expense	27,073	444,784	15,001	21,507	133,490	616,012
Net income or net expense	7,512	80,547	2,317	1,433	9,127	58,557

Orono	Oshawa	Ottawa	Otterville	Owen	Paisley	Palmerston	Paris	Parkhill
806	54,896	233,946	704	Sound 17,506	770	1,555	5,655	1,007
\$ 54,487 10,604	\$ 5,332,373 929,755	\$ 25,099,484 5,533,365	\$ 48,687 16,143	\$ 1,113,031 186,426	\$ 62,275 13,867	\$ 118,774 38,760	\$ 450,338 113,120	\$ 103,058 15,435
` 43,883	4,402,618	19,566,119	32,544	926,605	48,408	80,014	337,218	87,623
980 10,000 353	9,113 400,000 221,429	167,437 543,000 845,791	926	87,673 70,000 55,758	5,331 8,000 707	2,167 21,153 2,608	15,753 3,524	6,325 6,000 1,451
11,333	630,542	1,556,228	1,053	213,431	14,038	25,928	19,277	13,776
4,901	225,530	609,256	293	98,524	188	16,245	10,844	2,600
40	5,278	102,176	9	397			1,674	134
4,941 15,273	230,808 2,929,879	711,432 4,088,794	302 32,502	98,921 953,822	188 41,306	16,245 144,860	12,518 381,026	2,734 72,297
75,430	8,193,847	25,922,573	66,401	2,192,779	103,940	267,047	750,039	176,430
75 300	111,000 201,588 96,865	6,206,000 563,943 1,025	1,570 159	52,000 40,490 19,523	79	4,228 631	96,600 345 2,161	9,900 240 392
375	409,453	6,770,968	1,729	112,013	397	4,859	99,106	10,532
15,273	2,929,879 7,842	4,088,794 449,131	32,502	953,822 1,482	41,306	144,860 37	381,026 250	72,297
15,273	2,937,721	4,537,925	32,502	955,304	41,306	144,897	381,276	- 72,297
8,000	391,622	3,774,000	4,500	155,718	13,623	27,000	100,400	19,813
51,782	4,455,051	10,839,680	(i) (31,082	969,744	48,614	90,291	196,726	73,788
			3,412				27,469	
59,782	4,846,673	14,613,680	32,170	1,125,462	62,237	117,291	269,657	93,601
75,430	8,193,847	25,922,573	66,401	2,192,779	103,940	267,047	750,039	176,430
			,					
26,034 703	2,428,885 49,547	9,016,126 64,864	19,737 73	578,662 11,874	24,142 380	57,245 937	186,737 608	43,884 387
26,737	2,478,432	9,080,990	19,810	590,536	24,522	58,182	187,345	44,271
13,543	1,710,368	4,917,554	13,255	363,292	14,630	40,168	117,192	28,402
1,435	151,582	206,581 867,033	721	63,516	2,060	7,230	15,066	4,864
4,343	177,283	616,159	1,589	67,935	2,626	5,990	12,757	4,398
1,396	26,298 123,288	546,395 653,050	145 1,519	9,702 27,706	1,723	2,353	8,443 13,442	1,071 2,548
		9,060						
20,717	2,188,819	7,815,832	17,229	532,151	21,039	55,744	166,900	41,283
6,020	289,613	1,265,158	2,581	58,385	3,483	2,438	20,445	2,988
348	17,651	80,521	276	5,987	321	607	1,933	490

Municipality Population A. BALANCE SHEETS FIXED ASSETS	Parry Sound 5,867	Pene- tanguishene 4,658	Perth 5,408	Peter- borough 44,720	Petrolia	Pickering
A. BALANCE SHEETS FIXED ASSETS			5,408		2.566	
FIXED ASSETS				11,720	3,566	1,606
FIXED ASSETS						
	\$	\$	\$	\$	\$-	\$
	795,153	257,133	315,647	4,538,690	276,662	96,368
Plant and facilities at cost	184,318	79,266	93,745	1,007,204	77,908	14,575
Net fixed assetsCURRENT ASSETS	610,835	177,867	221,902	3,531,486	198,754	- 81,793
Cash on hand and in bank	2,414	14,102	18,675	304,827	15,344	5,763
Investment in government securities	16,270	55,000	81,000	*********	15,053	
Accounts receivable	5,193	1,466	1,647	125,813	8,887	1,097
Total current assets	23,877	70,568	101,322	430,640	39,284	6,860
OTHER ASSETS	20,011	70,500	101,022	100,010	07,201	0,000
Inventory of stores, tools and equip-						
ment at cost less depreciation.	10,265	8,120	23,828	127,682	24,325	98
				47.240		
Miscellaneous		1,110		45,318	912	6,932
Total other assets	10,265	9,230	23,828	173,000	25,237	7,030
Equity in Ontario Hydro Systems	40,122	223,530	291,285	1,938,351	305,469	
	685,099	481,195	638,337	6,073,477	568,744	95,683
-						
LIABILITIES	72,000			1,029,500		78,000
Debentures outstanding	664	103		161,113	3,573	9,700
Other	7,810	1,602	4,287	4,046	3,836	200
-						
Total liabilities	80,474	1,705	4,287	1,194,659	7,409	87,900
RESERVES	40.400	222 520	201 205	1 020 251	205 460	
Equity in Ontario Hydro Systems.	40,122	223,530 913	291,285 159	1,938,351 1,628	305,469 14	
Other	146	913	139	1,020		
Total reserves	40,268	224,443	291,444	1,939,979	305,483	
CAPITAL						
Debentures redeemed	396,500	36,983	85,045	730,111	50,000	2,000
Local sinking fund						
Accumulated net income invested in plant or held as working funds.	167,857	218,064	257,561	2,208,728	205,852	5,783
Frequency standardization expense	107,037	210,001	207,001	2,200,120	200,002	0,100
charged this year						
Total capital	564,357	255,047	342,606	2,938,839	255,852	7,783
- Court Capture						
	685,099	481,195	638,337	6,073,477	568,744	95,683
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy	163,097	130,048	163,690	1,850,007	116,230	20,528
Other	1,569	3,195	4,492	7,566	3,268	
-						
Total revenue	164,666	133,243	168,182	1,857,573	119,498	20,528
EXPENSE				,		
Power purchased	60,680	77,204	114,553	1,105,491	57,488	11,248
Local generation	36,553					
Operation and maintenance	20,194	15,985	13,819	183,000	18,681	1,649
Administration	22,048	10,354	18,608	126,564	19,296	2,052
Fixed charges—interest and principal —depreciation	6,564 15,281	7,995	5,690	94,113 122,176	8,212	3,200 1,100
—depreciation —other	13,201	1,993	3,090	122,170	0,212	1,100
-	161,320	-	152,670	1,631,344	103,677	19,249
Total expense	101,320	111,538	152,070	1,031,344	103,077	17,247
NT-4 Smanner on the Common of	2.24/	21 70-	15 510	224 220	15 921	1 270
Net income or net expense	3,346	21,705	15,512	226,229	15,821	1,279
	1,954					

Picton Plattsville Point Edward 478 2700 7221 Colborne Colb									
\$\begin{align*} \begin{align*} \be	Picton	Plattsville				Port Credit		Port Dover	Port Elgin
376,367	4,976	478				6,350		2,848	1,719
376,367									
92,078 3,595 42,003 24,038 95,709 65,703 17,944 59,433 22,108 283,689 37,581 175,200 42,748 811,271 397,889 178,485 187,169 134,241 647 9,995 32,682 4,101 16,385 88,652 17,141 14,678 2,683 3,000 4,500 4,931 10,000 8,500 17,141 14,678 2,681 5,804 14,711 84,788 4,417 28,595 102,087 19,912 16,437 5,110 18,189 20 6,698 2,281 30,516 13,358 19,309 4,572 8,060 248,925 40,107 291,895 14,690 466,318 232,441 151,929 117,507 81,701 248,925 40,107 291,895 14,890 466,318 224,441 151,929 117,507 81,701 35,760 135,851 66,453 25,975 74,658 229,112 36,77						- \$	\$	\$	\$
283,689 37,581 175,200 42,748 811,271 397,889 178,485 187,169 134,241 647 9,995 32,682 4,101 16,385 88,652 17,141 14,678 2,683 3,000 4,300 49,431 10,000 8,500 8,500 2,157 1,175 1,500 21,675 216 2,675 316 2,210 4,935 2,771 1,759 1,500 21,675 316 2,210 4,935 2,771 1,759 1,500 21,675 216 2,675 316 2,210 4,935 2,771 1,759 1,500 25,804 14,711 84,788 4,417 28,595 102,087 19,912 16,437 5,110 18,189 20 6,698 2,281 30,516 13,358 19,309 4,572 8,060 3,553 7,008 8,242 30,737 17,500 20,281 23,595 8,060 248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,700 38,776 3,556 3,850 35,700 135,851 66,453 25,975 74,658 2,29,112 38,776 3,570 135,851 66,453 25,975 74,658 3,132 735 1175 6,566 2,340 79 67,814 10,469 1,702 605 735 13,160 3,585 3,830 38,749 219,070 96,554 30,672 83,132 735 248,925 40,107 291,895 14,890 466,318 232,441 151,920 117,367 81,700 249,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,044 5,237 17,000 4,300 207,149 72,065 43,525 34,342 37,787 231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786 255,479 49,279 263,236 16,658 651,228 420,180 187,776 144,069 146,573 35,600 33,86 24,960 31,500 34,500 344,508 24,914 1					906,980	463,652	196,419	246,602	156,349
647 9,995 32,682 4,101 16,385 88,652 17,141 14,678 2,683 3,000 4,500 49,431 10,000 8,500 2,771 1,759 1,500 5,804 14,711 84,788 4,417 28,595 102,087 19,912 16,437 5,110 18,189 20 6,698 2,281 30,516 13,358 19,309 4,572 8,060 3,553 70,998 8,242 30,747 17,500 20,281 23,595 8,060 248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 38,778 35,700 135,851 66,453 25,975 74,658 17,50 6,564 30,672 83,132 735 135,02 2,975	92,678	3,595	42,003	24,938	95,709	65,763	17,934	59,433	22,108
3,000 2,157 45,00 2167 24,431 2,675 10,000 316 8,500 2,120 4,945 4,945 2,771 2,771 1,759 1,759 2,771 1,509 2,771 1,509 2,771 1,759 2,771 2,759 2,771 1,759 2,771 2,500 2,771 1,509 2,771 2,100 2,100 2,110 1,000 2,110 8,500 2,110 1,000 2,110 10,000 2,110 10,000 2,100	283,689	37,581	175,200	42,748	811,271	397,889	178,485	187,169	134,241
2,157 216 2,675 310 2,210 4,935 2,771 1,759 927 5,804 14,711 84,788 4,417 28,595 102,087 19,912 16,437 5,110 18,189 20 6,698 2,281 30,516 13,358 19,309 4,572 8,060 218,189 3,553 7,098 8,242 30,737 17,500 20,281 23,595 8,060 28,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 8,060 38,778 35,700 135,851 66,453 25,975 74,658 735 13,685 17,62 605 735 13,685 1,664 33,83 25,975 74,658				4,101	16,385	88,652	17,141	14,678	2,683
5,804 14,711 84,788 4,417 28,595 102,087 19,912 16,437 5,110 18,189 20 6,698 2,281 30,516 13,358 19,309 4,572 8,060 3,533 400 5,961 231 4,142 972 19,023 8,060 18,189 3,553 7,098 8,242 30,747 17,500 20,281 23,595 8,060 248,923 40,107 291,895 14,890 466,318 232,441 151,029 117,367 81,701 38,778 35,700 135,851 66,453 25,975 74,658 229,112 38,778 35,700 135,851 66,453 25,975 74,658 229,112 38,778 35,700 135,851 66,453 25,975 74,658 229,112 38,778 37,500 135,851 66,453 25,975 74,658 36,731 31,50 3,51 36,50 38,749 219,070 96,554 <									1,500
18,189 20 6,698 2,281 30,516 13,358 19,309 4,572 8,060 3,533 400 5,961 231 4,142 972 19,023 18,189 3,553 7,098 8,242 30,747 17,500 20,281 23,595 8,060 248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 38,778 35,700 135,851 66,453 25,975 74,658 13,160 1,510 2,970 15,405 19,632 2,935 7,869 52,113 6,566 3,850 38,749 219,070 96,554 30,672 83,132 735 248,925 40,107 291,895 14,890 466,318 23,441 151,929 117,367 81,7	2,157	216	2,675	316	2,210	4,935	2,771	1,759	927
18,189	5,804	14,711	84,788	4,417	28,595	102,087	19,912	16,437	5,110
18,189 3,553 7,098 8,242 30,747 17,500 20,281 23,595 8,000 248,925 40,107 291,895 14,890 466,318 232,441 151,929 11,368 23,595 8,060 556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 38,778	18,189	20	6,698	2,281	30,516	13,358	19,309	4,572	8,060
18,189									
248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 38,778 35,700 135,851 66,453 25,975 74,658 175 6,566 2,340 79 67,814 10,469 1,762 605 735 13,160 38,709 219,070 96,554 30,672 83,132 735 248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 249,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,0015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,0015 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786		3,533	400	5,961	231	4,142	972	19,023	
248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 38,778	18,189	3,553	7,098	8,242	30,747	17,500	20,281	23,595	8.060
38,778 35,700 135,851 66,453 25,975 74,658 79 67,814 10,469 1,762 605 735 735 13,160 1,510 2,970 15,405 19,632 2,935 7,869 735 735 2,935 7,869 735 2,935 7,869 735 248,925 40,107 291,895 14,890 46,318 232,441 151,929 117,367 81,701 81,701 90 103 249,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,404 5,237 17,000 4,300 207,149 72,065 43,525 34,342 37,87 231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786 144,069 146,573 255,479 49,279 263,236 16,6	248,925	40,107	291,895	14,890	466,318	232,441			
175 6,566 2,340 79 67,814 10,469 1,762 605 735 13,160 1,510 2,970 15,405 19,632 2,935 7,869 52,113 6,566 3,850 38,749 219,070 96,554 30,672 83,132 735 248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 103 249,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,404 5,237 17,000 4,300 207,149 72,065 43,525 34,342 37,787 231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786	556,607	95,952	558,981	70,297	1,336,931	749,917	370,607	344,568	229,112
175 6,566 2,340 79 67,814 10,469 1,762 605 735 13,160 1,510 2,970 15,405 19,632 2,935 7,869 52,113 6,566 3,850 38,749 219,070 96,554 30,672 83,132 735 248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 103 249,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,404 5,237 17,000 4,300 207,149 72,065 43,525 34,342 37,787 231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786									
175 6,566 2,340 79 67,814 10,469 1,762 605 735 13,160 1,510 2,970 15,405 19,632 2,935 7,869 52,113 6,566 3,850 38,749 219,070 96,554 30,672 83,132 735 248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 103 249,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,404 5,237 17,000 4,300 207,149 72,065 43,525 34,342 37,787 231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786									
13,160 1,510 2,970 15,405 19,632 2,935 7,869									
52,113 6,566 3,850 38,749 219,070 96,554 30,672 83,132 735 248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 103 249,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,404 5,237 17,000 4,300 207,149 72,065 43,525 34,342 37,787 231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786 255,479 49,279 263,236 16,658 651,228 420,180 187,776 144,069 146,573 56,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 173,848 28,622 151,348 22,480 371,214 512,734 117,136 111,215 82,005 1,550 284 3,686 31									
248,925 40,107 291,895 14,890 466,318 232,441 151,929 117,367 81,701 249,015 40,107 291,895 14,890 466,633 233,183 152,159 117,367 81,804 24,404 5,237 17,000 4,300 207,149 72,065 43,525 34,342 37,787 231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786	13,100		1,310	2,970	15,405	19,032	2,933	1,009	
90	52,113	6,566	3,850	38,749	219,070	96,554	30,672	83,132	735
90	248 925	40 107	201 805	14 890	466 318	232 441	151 020	117 367	81 701
24,404 5,237 17,000 4,300 207,149 72,065 43,525 34,342 37,787 231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
24,404 5,237 17,000 4,300 207,149 72,065 43,525 34,342 37,787 231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786 <t< td=""><td>240.015</td><td>40.107</td><td>201 905</td><td>14 200</td><td>166 622</td><td>222 102</td><td>152 150</td><td>117 267</td><td>91 904</td></t<>	240.015	40.107	201 905	14 200	166 622	222 102	152 150	117 267	91 904
231,075 44,042 246,236 12,358 444,259 348,115 144,251 109,727 108,786 255,479 49,279 263,236 16,658 651,228 420,180 187,776 144,069 146,573 556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 173,848 28,622 151,348 22,480 371,214 512,734 117,136 111,215 82,005 1,550 284 3,686 31 1,569 2,035 38 51 175,398 28,906 155,034 22,511 372,783 514,769 117,136 111,253 82,056 111,265 23,141 122,201 8,824 198,816 354,757 59,541 61,430 47,730 13,149 940 5,534 3,984 47,135 24,014 11,846 11,446 9,367 15,040 573 17,716 3,707 43,723 25,283 14,700 7,357 10,145 7,522 2 2 2,	249,013	40,107	291,093	14,890	400,033	255,165	132,139	117,307	51,504
255,479 49,279 263,236 16,658 651,228 420,180 187,776 144,069 146,573 556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 173,848 28,622 151,348 22,480 371,214 512,734 117,136 111,215 82,005 1,550 284 3,686 31 1,569 2,035	24,404	5,237	17,000	4,300	207,149	72,065	43,525	34,342	37,787
255,479 49,279 263,236 16,658 651,228 420,180 187,776 144,069 146,573 556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 173,848 28,622 151,348 22,480 371,214 512,734 117,136 111,215 82,005 1,550 284 3,686 31 1,569 2,035									
255,479 49,279 263,236 16,658 651,228 420,180 187,776 144,069 146,573 556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 173,848 28,622 151,348 22,480 371,214 512,734 117,136 111,215 82,005 1,550 284 3,686 31 1,569 2,035 38 51 175,398 28,906 155,034 22,511 372,783 514,769 117,136 111,253 82,056 111,265 23,141 122,201 8,824 198,816 354,757 59,541 61,430 47,730 13,149 940 5,534 3,984 47,135 24,014 11,846 11,446 9,367 15,040 573 17,716 3,707 43,723 25,283 14,700 7,357 10,145 7,522 2 2 2,963 15,902 13,757 5,003	231,075	44,042	246,236	12,358	444,259	348,115	144,251	109,727	108,786
556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 173,848 28,622 151,348 22,480 371,214 512,734 117,136 111,215 82,005 1,550 284 3,686 31 1,569 2,035	,				180				
556,607 95,952 558,981 70,297 1,336,931 749,917 370,607 344,568 229,112 173,848 28,622 151,348 22,480 371,214 512,734 117,136 111,215 82,005 1,550 284 3,686 31 1,569 2,035	255,479	49,279	263,236	16,658	651,228	420,180	187,776	144,069	146,573
173,848 28,622 151,348 22,480 371,214 512,734 117,136 111,215 82,005 1,550 284 3,686 31 1,569 2,035	556 607	95 952	558 981	70.297	1 336 931	749 917	370 607	344 568	229 112
1,550 284 3,686 31 1,569 2,035	330,007	73,732	336,761	10,271	1,330,731	747,717	370,007	341,500	247,112
1,550 284 3,686 31 1,569 2,035									
1,550 284 3,686 31 1,569 2,035									
175,398 28,906 155,034 22,511 372,783 514,769 117,136 111,253 82,056 111,265 23,141 122,201 8,824 198,816 354,757 59,541 61,430 47,730 13,149 940 5,534 3,984 47,135 24,014 11,846 11,446 9,367 15,040 573 17,716 3,707 43,723 25,283 14,700 7,357 10,145 7,522 2 2 2,963 15,902 13,757 5,003 6,509 10,502 864 5,520 2,221 18,564 11,117 4,249 6,873 3,777 157,478 25,520 150,971 21,699 324,140 428,928 95,339 93,615 71,019 17,920 3,386 4,063 812 48,643 85,841 21,797 17,638 11,037								1	
111,265 23,141 122,201 8,824 198,816 354,757 59,541 61,430 47,730 13,149 940 5,534 3,984 47,135 24,014 11,846 11,446 9,367 15,040 573 17,716 3,707 43,723 25,283 14,700 7,357 10,145 7,522 2 2 2,963 15,902 13,757 5,003 6,509 10,145 10,502 864 5,520 2,221 18,564 11,117 4,249 6,873 3,777 157,478 25,520 150,971 21,699 324,140 428,928 95,339 93,615 71,019 17,920 3,386 4,063 812 48,643 85,841 21,797 17,638 11,037	1,550		3,000	- 31	1,309	2,033			
13,149 940 5,534 3,984 47,135 24,014 11,846 11,446 9,367 15,040 5,73 17,716 3,707 43,723 25,283 14,700 7,357 10,145 7,522 2 2 2,963 15,902 13,757 5,003 6,509 10,502 864 5,520 2,221 18,564 11,117 4,249 6,873 3,777 157,478 25,520 150,971 21,699 324,140 428,928 95,339 93,615 71,019 17,920 3,386 4,063 812 48,643 85,841 21,797 17,638 11,037	175,398	28,906	155,034	22,511	372,783	514,769	117,136	111,253	82,056
13,149 940 5,534 3,984 47,135 24,014 11,846 11,446 9,367 15,040 5,73 17,716 3,707 43,723 25,283 14,700 7,357 10,145 7,522 2 2 2,963 15,902 13,757 5,003 6,509 10,502 864 5,520 2,221 18,564 11,117 4,249 6,873 3,777 157,478 25,520 150,971 21,699 324,140 428,928 95,339 93,615 71,019 17,920 3,386 4,063 812 48,643 85,841 21,797 17,638 11,037									
13,149 940 5,534 3,984 47,135 24,014 11,846 11,446 9,367 15,040 573 17,716 3,707 43,723 25,283 14,700 7,357 10,145 7,522 2 2,963 15,902 13,757 5,003 6,509 10,502 864 5,520 2,221 18,564 11,117 4,249 6,873 3,777 157,478 25,520 150,971 21,699 324,140 428,928 95,339 93,615 71,019 17,920 3,386 4,063 812 48,643 85,841 21,797 17,638 11,037		,		8,824			59,541	61,430	47,730
15,040 573 17,716 3,707 43,723 25,283 14,700 7,357 10,145 7,522 2 2 2,963 15,902 13,757 5,003 6,509				3.984			11.846	11.446	9.367
7,522 2									
157,478 25,520 150,971 21,699 324,140 428,928 95,339 93,615 71,019 17,920 3,386 4,063 812 48,643 85,841 21,797 17,638 11,037	7,522	2		2,963	15,902	13,757	5,003		
157,478 25,520 150,971 21,699 324,140 428,928 95,339 93,615 71,019 17,920 3,386 4,063 812 48,643 85,841 21,797 17,638 11,037									
17,920 3,386 4,063 812 48,643 85,841 21,797 17,638 11,037									
	157,478	25,520	150,971	21,699	324,140	428,928	95,339	93,615	71,019
1,906 188 813 439 4,570 2,596 1,113 1,447 1,035	17,920	3,386	4,063	812	48,643	85,841	21,797	17,638	11,037
1,906 188 813 439 4,570 2,596 1,113 1,447 1,035									
	1,906	188	813	439	4,570	2,596	1,113	1,447	1,035

Municipality	Port Hope	Port McNicoll	Port Perry	Port Rowan	Port . Stanley	Prescott
Population	7,690	997	2,212	793	1,415	5,373
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. Accumulated depreciation	\$ 582,858 115,247	\$ 58,172 12,032	\$ 122,396 20,508	\$ 52,486 8,951	\$ 152,928 47,576	\$ 255,944 78,441
Net fixed assets	467,611	46,140	101,888	43,535	105,352	177,503
CURRENT ASSETS Cash on hand and in bank Investment in government securities Accounts receivable	92,130 1,758	14,755 26,000 3,249	29,490 16,000 475	6,372	50 9,000 2,471	24,024 30,000 9,967
Total current assetsOTHER ASSETS	93,888	44,004	45,965	7,832	11,521	63,991
Inventory of stores, tools and equipment at cost less depreciation Sinking fund on local debentures Miscellaneous	38,715	3,820	3,135	1,059	6,030	14,060
Total other assets Equity in Ontario Hydro Systems	38,715 401,824	3,820 48,049	3,135 78,081	1,059 27,326	19,576 147,016	14,250 218,653
	1,002,038	142,013	229,069	79,752	283,465	474,397
LIABILITIES Debentures outstandingAccounts payableOther	120,500	26 417	1,079 1,411	2,877	5,139 824	2,700 771 3,223
Total liabilities	158,420	443	2,490	3,138	5,963	6,694
RESERVES Equity in Ontario Hydro Systems Other	401,824	48,049	78,081 100	27,326	147,016 39	218,653
Total reserves	401,824	48,049	78,181	27,326	147,055	218,653
CAPITAL Debentures redeemed Local sinking fund	123,500	9,804	19,882	11,000	18,950	21,471
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	318,294	83,717	128,516	41,993	111,497	227,579
charged this year				3,705		
Total capital	441,794	93,521	148,398	49,288	130,447	249,050
	1,002,038	142,013	229,069	79,752	283,465	474,397
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other	413,353 2,081	51,738 1,661	58,857 1,041	18,272 123	64,811 435	156,214 2,149
Total revenue	415,434	53,399	59,898	18,395	65,246	158,363
EXPENSE						
Power purchased		35,000	41,948	10,232	46,394	113,097
Operation and maintenance Administration		3,847 2,956	5,953 5,784	1,186 1,088	11,409 8,317	13,289 17,459
Fixed charges—interest and principal —depreciation		1,590	3,103	1,335	4,711	1,440 7,897
—other	13,237					
Total expense	357,041	43,393	56,788	13,841	70,831	153,182
Net income or net expense	58,393	10,006	3,110	4,554	5,585	5,181
Number of customers	2,740	464	805	331	1,138	1,720

Preston	Priceville	Princeton	Queenston	Renfrew	Richmond	Richmond Hill	Ridgetown	Ripley
10,593	163	428	425	8,500	916	14,191	2,468	448
\$. \$	\$	\$	\$	\$	\$	\$	\$
983,664	15,540	29,874	29,418	1,224,330	55,843	787,252	180,267	36,595
180,250	4,507	5,042	6,087	245,499	3,857	58,600	23,151	5,537
803,414	11,033	24,832	23,331	978,831	51,986	728,652	157,116	31,058
44,472	1,397	2,189	. 9,757	38,274	4,657	12,932	5,902	6,656
	5,500	3,000	8,000	45,000		12,502	0,702	10,000
6,329	37	396	621	33,260	828	12,033	1,215	179
50,801	6,934	5,585	18,378	116,534	5,485	24,965	7,117	16,835
62,567	55	21		27,395	1,476	18,590	3,864	319
2.052								
3,053				26		9,288	61	
65,620	55	21		27,421	1,476	27,878	3,925	319
867,162	3,691	33,169	25,886	90,361	18,310	152,430	143,575	29,841
	-	-			-			22,011
1,786,997	21,713	63,607	67,595	1,213,147	77,257	933,925	311,733	78,053
243,200	3,900	2,250		202,586	6,800	455,444	53,686	
2,991	111	10	147	11,365		14,053	3,407	
13,046	87	570	155	8,453	827	29,254	2,472	453
259,237	4,098	2,830	302	222,404	7,627	498,751	59,565	. 453
0.5								
867,162	3,691	33,169	25,886	90,361	18,310	152,430	143,575	29,841
			31	258		1,580	3,547	
867,162	3,691	33,169	25,917	90,619	18,310	154,010	147,122	29,841
234,600	8,266	3,800	9,500	568,650	7,087	46,177	27,770	12,745
425,998	5,658	25,552	31,876	331,474	44,233	. 234,987	79,145	35,014
,			,		11,500	201,501	,,,,,,	00,011
		1,744					1,869	
660,598	13,924	27,608	41,376	900,124	51,320	281,164	105,046	47,759
1,786,997	21,713	63,607	67,595	1,213,147	77,257	933,925	311,733	78,053
1,700,777	21,710	00,007	07,575	1,213,147	11,231	733,723	311,733	76,533
503,575	3,630	12,730	16,739	295,451	23,821	439,120	84,269	15,554
1,084	206	170	235	3,474	4	346	1,235	295
F04 (F0	2.02/	12.000						
504,659	3,836	12,900	16,974	298,925	23,825	439,466	85,504	15,849
289,271	1,867	9,455	10,750	96,490	12,398	267,801	50,615	11,231
				33,593				
53,176	234	221	698	28,425	2,236	15,383	8,765	619
24,674 28,034	399	905 400	912	31,032 23,449	953 635	27,349 34,210	9,755 5,211	1,410
25,774	470	788	794	28,946	1,192	15,663	4,279	917
420,929	3,492	11,769	13,154	241,935	17,414	360,406	78,625	14,177
83,730	434	1,131	3,820	56,990	6,411	79,060	6,879	1,672
2 120	- 61	160	152	2.617	277	4.100	1.004	215
3,128	64	168	152	2,617	277	4,190	1,004	213

Municipality	Riverside	Rockland	Rockwood	Rodney	Rosseau	Russell
Population	15,559	2,852	860	1,025	207	562
A. BALANCE SHEETS				\$	\$	•
FIXED ASSETS	\$	\$ 90,800	\$ 45.029	55,576	21.534	36,721
Plant and facilities at cost	640,322 135,636	8,674	8,595	18,834	5,734	6,346
Accumulated depreciation						
Net fixed assets	504,686	82,126	36,434	36,742	15,800	30,375
Cash on hand and in bank	23,849	12,049	7,787	1,096	2,698	6,284
Investment in government securities			1,500	5,200	1,500	12,000
Accounts receivable	9,938	8,227	153		316	1,928
Total current assets	33,787	20,276	9,440	6,373	4,514	20,212
OTHER ASSETS						
Inventory of stores, tools and equip-	42.107	1,991	119	197		131
ment at cost less depreciation Sinking fund on local debentures	42,197	1,991	119	171		
Miscellaneous	566	1,251	195		28	
Wiscenaneous						
Total other assets	42,763	3,242	314	197	28	131
Equity in Ontario Hydro Systems	354,145	9,603	39,745	48,294	13,070	20,92
	935,381	115,247	85,933	91,606	33,412	71,642
LIABILITIES						
Debentures outstanding	38,433	21,000	7,161			
Accounts payable	365	5,393	729	261	65	1
Other	9,702	2,260	634	385	36	32
Total liabilities	48,500	28,653	8,524	646	101	34
RESERVES	40,500	20,000	0,021			
Equity in Ontario Hydro Systems	354,145	9,603	39,745	48,294	13,070	20,92
Other	232	547		73	49	
	254 255	10.150	20.745	48,367	13,119	20,92
Total reserves	354,377	10,150	39,745	40,307	13,119	20,92
Debentures redeemed	124,067	4,000	5,339	8,500	11,933	8,80
Local sinking fund	121,007	2,000				
Accumulated net income invested in						
plant or held as working funds.		72,444	32,325	34,093	8,259	41,56
Frequency standardization expense						
charged this year						
Total capital	532,504	76,444	37,664	42,593	20,192	50,37
	935,381	115,247	85,933	91,606	33,412	71,64
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	326,529	50,209	24.844	26,610	6,482	12,15
Other	2,876	163	246	342	170	58
Total revenue	329,405	50,372	25,090	26,952	6,652	12,74
			·			
EXPENSE Power purchased	193,597	24.800	15,398	18,414	3,399	7,87
Local generation	193,391	24,800	13,330	10,111		
Operation and maintenance	31,665	7,153	2,112	2,797	670	96
Administration	41,863	3,213	2,637	2,829	629	1,33
Fixed charges—interest and principa		1,967	589	46	626	
—depreciation		2,129	1,228	1,792	636	94
—other						
Total armones	293,811	39,262	21,964	25,878	5,334	11,12
Total expense						
	07.70	44.440	2.421	1.051	1 210	1 / 1
Net income or net expense	35,594	11,110	3,126	1,074	1,318	1,61

St. Catharines	St. Clair	St. George	St. Jacobs	St. Mary's	St. Thomas	Sandwich	Sandwich
41,156	Beach 1,125	732	722	4,266	19,503	East Twp. 21,289	West Twp. 22,074
\$ 2.546.216	\$	\$ 43.180	\$	\$	\$	\$	\$
3,546,216 496,360	80,491 14,426	43,189 1,713	45,711 8,837	403,881 107,223	1,444,130 419,005	1,203,127 212,523	1,532,716 235,727
3,049,856	66,065	41,476	36,874	296,658	1,025,125	990,604	1,296,989
192,669	6,068	7,309	3,706	29,849	300	959	118,732
100,000 164,708	363	6,000 1,735	2,000 1,244	42,500 2,108	35,000 59,280	50,500 53,185	29,362
457,377	6,431	15,044	6,950	74,457	94,580	104,644	148,094
107,077	0,101	10,011	0,750	7 1, 101	94,300	104,044	140,094
149,703	703	631	10	45,093	62,888	141,960	119,642
2,897				4,053	72,226	1,001	1,332
152,600	703	631	10	49,146	135,114	142,961	120,974
. 3,088,099	28,696	46,409	59,662	409,813	1,605,580	136,232	174,629
6,747,932	101,895	103,560	103,496	830,074	2,860,399	1,374,441	1,740,686
	7,800			50,877		988,000	1,126,000
218,997 49,981	360 1,150	3,467	322 100	3,454	25,369 44,395	40,063 34,308	3,109 93,471
268,978	9,310	4,078	422	54,333	69,764	1,062,371	1,222,580
3,088,099	28.696	46,409	59,662	409.813	1,605,580		
3,905		40,409	39,002	409,813	1,005,380	136,232	174,629 303
3,092,004	28,696	46,409	59,662	409,857	1,605,760	136,232	174,932
302,023	10,541	6,000	6,000	143,384	138,944	59,104	74,000
3,084,927	53,348	47,297	37,412	222,500	1,045,931	116,734	269,174
		224					
3,386,950	63,889	53,073	43,412	365,884	1,184,875	175,838	343,174
6,747,932	101,895	103,560	103,496	830,074	2,860,399	1,374,441	1,740,686
0.072.475	20.55	02.442	04.022	250 600	mon and	540.245	680.208
2,273,472 7,922	38,555 54	23,140 497	24,933 376	370,688 5,255	783,370 4,441	542,315 10,001	679,327 3,940
2,281,394	38,609	23,637	25,309	375,943	787,811	552,316	683,267
1 456 161	20,590	16,120	19,094	272,208	455,909	201,992	312,822
1,456,161							
167,122 146,415	2,776 2,800	1,855 1,811	1,581 1,308	16,283 21,120	116,859 69,382	108,027 77,611	69,994 66,732
	1,569			5,649	383	85,630	100,586
83,225	2,044	948	1,206	11,381	43,040	29,796	36,492
1,852,923	29,779	20,734	23,189	326,641	685,573	503,056	586,626
428,471	8,830	2,903	2,120	49,302	102,238	49,260	96,641
120,171	0,000	2,700		27,002	2.2,203		
13,663	410	275	233	1,594	6,870	5,965	6,435

		1				
Municipality	Sarnia	Scarborough	Seaforth	Shelburne	Simcoe	Smith's
Population	46,913	Twp. 168,281	2,202	1,274	8,279	Falls 8,917
A. BALANCE SHEETS						
FIXED ASSETS	s .	S	\$	\$	\$	\$
Plant and facilities at cost	3,694,486	14,539,504	202,436	103,068	624,225	657,170
Accumulated depreciation	809,382	1,149,955	18,099	30,942	134,144	169,983
recumulated depreciations.						
Net fixed assets	2,885,104	13,389,549	184,337	72,126	490,081	487,187
CURRENT ASSETS						
Cash on hand and in bank	600	546,480	15,448	8,247	503	12,396
Investment in government securities		927,500	9,000			20,000
Accounts receivable	126,255	285,297	1,935	1,605	2,205	2,814
The Land contacts	126 055	1,759,277	26.383	9,852	2,708	35,210
Total current assets OTHER ASSETS	126,855	1,739,277	20,363	9,032	2,700	33,210
Inventory of stores, tools and equip-						
ment at cost less depreciation.	326,944	353,046	14,639	1,232	35,139	22,116
Sinking fund on local debentures		249,094				
Miscellaneous	2,916	188,001	597			458
Total other assets	329,860	790,141	15,236	1,232	35,139	22,574
Equity in Ontario Hydro Systems	2,569,172	2,231,651	196,911	75,348	457,383	455,491
	5,910,991	18,170,618	422,867	158,558	985,301	1,000,462
LIABILITIES						
Debentures outstanding	248,900	8,445,150	29,300			12,500
Accounts payable	276,628	566,424	1,732		25,412	156
Other	175,418	927,698	2,910	156	9,726	920
		1				
Total liabilities	700,946	9,939,272	33,942	156	35,138	13,576
RESERVES		0.004 684	100.011	77.240	455.050	455 404
Equity in Ontario Hydro Systems.,	2,569,172	2,231,651	196,911	75,348	457,373	455,491 179
Other	14,562	12,579		49		179
Total reserves	2,583,734	2,244,230	196,911	75,397	457,373	455,670
CAPITAL	2,000,100			,		
Debentures redeemed	539,100	1,352,429	45,700	16,991	75,435	135,287
Local sinking fund		249,094				
Accumulated net income invested in						
plant or held as working funds.	2,087,211	4,385,593	146,314	66,014	417,355	395,929
Frequency standardization expense						
charged this year						
Total capital	2.626,311	5,987,116	192,014	83,005	492,790	531,216
	5,910,991	18,170,618	422,867	158,558	985,301	1,000,462
	0,720,772	10,170,010	122,007	100,000	700,002	-,
B. OPERATING STATEMENTS						
REVENUE '					:	
Sales of electric energy	2,313,202	6,456,048	83,116	49,271	370,428	300,721
Other	40,953	75,124	814	77	540	2,633
						202.251
Total revenue	2,354,155	6,531,172	83,930	49,348	370,968	303,354
EXPENSE						
Power purchased	1,556,965	3,746,987	45,860	33,449	237,041	193,628
Local generation						
Operation and maintenance	266,575	297,552	14,942	2,684	37,620	21,035
Administration	198,875	418,029	6,775	3,266	21,178	34,062
Fixed charges—interest and principal		731,696	2,940	2.150	1,468	3,142
—depreciation	97,941	306,609	4,466	3,150	17,884	18,890
—other						
Total expense	2,166,061	5,500,873	74,983	42,549	315,191	270,757
NI-A Inches	100.004	1 020 200	0.04=	(500	E - 000	22.505
Net income or net expense	188,094	1,030,299	8,947	6,799	55,777	32,597
Number of customers	14,319	54,338	810	551	3,113	3,252

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Smithville	Southamp-	Springfield	Stamford	Stayner	Stirling	Stoney	Stouffville	Stratford
825	ton 1,777	551	Twp. 28,476	1,539	1,306	Creek 5,859	2,652	20,532
\$	\$	s	\$	\$	\$	\$		6
54,574	150,484	35,450	1,999,739	93,512	108,674		\$ 147.507	\$
10,711	14,556	10,798	260,380	17,757	32,367	301,845 34,253	147,597 20,779	1,776,032 516,869
43,863	135,928	24,652	1,739,359	75,755	76,307	267,592	126,818	1,259,163
3,509	11,901	5,693	142,630	5,984	27,190	50,381		
3,000		500	8,000	1,000	27,190	30,381	3,306	2,000 180,000
167	611	608	19,401	947	1,652	0 1,267	734	13,094
6,676	12,512	6,801	170,031	7,931	28,842	51,648	4,040	195,094
1,014	6,085	139	100,220	946	3,350	9,373	1,647	70,818
	106	2 451	2.626	2.046	026	, , , ,		
		2,451	2,626	2,846	826	1,540	170	2,289
1,014 26,471	6,191 78,125	2,590 27,885	102,846 553,460	3,792 68,535	4,176 47,475	10,913 57,710	1,817 87,634	73,107 1,830,664
78,024	232,756	61,928	2,565,696	156,013	156,800	387,863	220,309	3,358,028
	8,937		935,635		9,907	55,007	17,903	
69 298	140 1,567	37 95	37,943 19,851	4,030 486	671	2,719 4,926	4,259 4,880	21,766 113,554
367	10,644	132	993,429	4,516	10,655	62,652	27,042	135,320
26,471	78,125	27,885 314	553,460 37,779	68,535 50	47,475	57,710	87,634 51	1,830,664
26,471	78,125	28,199	591,239	68,585	. 47,475	57,710	87,685	1,831,579
		0 500						
15,000	33,587	9,500	464,643	9,558	13,093	24,993	16,745	455,800
20.696	110,400	24,097	E16 20E	72 254	05 577	242 500	00.027	
39,686			516,385	73,354	85,577	242,508	88,837	935,666
3,500					* * * * * * * * * * * * * * * * * * * *			337
51,186	143,987	33,597	981,028	82,912	98,670	267,501	105,582	1,391,129
78,024	232,756	61,928	2,565,696	156,013	156,800	387,863	220,309	3,358,028
33,547	72,516	13,096	890,351	50,606	45,849	176,251	87,400	924 792
226	183	40	1,905	53	1,027	706	138	824,782 21,538
33,773	72,699	13,136	892,256	50,659	46,876	176,957	87,538	846,320
18,645	44,071	7,314	492,809	36,259	23,059	117,729	63,164	498,680
4,565	10,186	474	105,706	4,016	5,936	5,763	3,273	90,048
4,626	6,640 1,517	1,115	61,364 81,709	3,531	5,696 990	16,292 6,285	8,088	83,580
1,428	3,563	1,101	47,068	2,504	1,965	6,993	1,472 3,245	5,378 53,513
29,264	65,977	10,004	788,656	46,310	37,646	153,062	79,242	731,199
4.500	6 700	2 122	102 600	4 340	0.330	22.005	2 206	115 121
4,509	6,722	3,132	103,600	4,349	9,230	23,895	8,296	115,121
379	1,078	178	8,587	613	504	1,829	922	6,871
017	2,0,0	2.0	0,007	0.10	001	2,027	, , ,	0,0.1

Municipality							
A. BALANCE SHETTS S S S S S S S S S	Municipality	Strathroy	Streetsville	Sunderland	Sundridge	Sutton	Swansea
FINED ASSETS \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Population	4,719	3,766	575	753	1,395	8,972
CURRENT ASSETS Cash on hand and in bank 7,443 12,903 4,824 3,180 311 226,096 Investment in government securities 3,054 7,721 1188 317 4,674 4,114 Total current assets 10,497 20,624 7,012 13,497 11,985 230,210 OTHER ASSETS 11,497 20,624 7,012 13,497 11,985 230,210 Inventory of stores, tools and equipment at cost less depreciation 13,485 1,606 508 2,426 456 21,740 Sinking fund on local debetures 20 69 8,812 2,800 Total other assets 13,505 1,675 508 11,238 456 24,600 Equity in Ontario Hydro Systems 312,299 61,709 35,478 5,500 76,495 401,042 Accounts payable 461 10,257 64 178 1,425 3,055 Other 7,719 105 31 880 131,574 401,042 401,042 401,042 <td< td=""><td>FIXED ASSETS Plant and facilities at cost</td><td>351,834</td><td>297,394</td><td>40,586</td><td>52,356</td><td>125,237</td><td>541,136</td></td<>	FIXED ASSETS Plant and facilities at cost	351,834	297,394	40,586	52,356	125,237	541,136
Cash on hand and in bank. 7,443 12,903 4,824 3,180 311 226,096 Accounts receivable 3,054 7,721 188 317 4,674 4,114		248,926	264,929	32,904	46,153	94,268	433,373
Total current assets.	Cash on hand and in bank Investment in government securities			2,000	10,000	7,000	
Inventory of stores, tools and equipment at cost less depreciation. 13,485 1,606 508 2,426 456 21,740 Sinking fund on local debentures. 20 69 8,812 2,860		10,497	20,624	7,012	13,497	11,985	230,210
Total other assets. 13,505	Inventory of stores, tools and equipment at cost less depreciation Sinking fund on local debentures						
LIABILITIES	Total other assets						
Debentures outstanding		585,227	348,937	75,902	76,394	183,204	1,089,225
Debentures outstanding							
RESERVES Equity in Ontario Hydro Systems. 312,299 61,709 35,478 5,506 76,495 401,042 759 Total reserves. 312,397 63,530 35,478 5,506 76,844 401,801 CAPITAL Debentures redeemed. 55,489 31,684 4,628 7,200 26,000 158,620 Local sinking fund. Accumulated net income invested in plant or held as working funds. 202,714 115,130 35,627 35,679 78,055 420,684 Frequency standardization expense charged this year. 258,203 146,814 40,255 42,879 104,055 579,304 Total capital. 258,203 146,814 40,255 42,879 104,055 579,304 REVENUE Sales of electric energy. 175,850 145,559 21,880 25,104 57,864 306,833 Other. 584 1,288 146 177 243 6,847 Total revenue. 176,434 146,847 22,026 25,281 58,107 313,680 EXPENSE	Debentures outstanding	461	10,257		178		3,065
Equity in Ontario Hydro Systems		14,627	138,593	169	28,009	2,305	108,120
CAPITAL Debentures redeemed. 55,489 31,684 4,628 7,200 26,000 158,620 Local sinking fund. Accumulated net income invested in plant or held as working funds. Frequency standardization expense charged this year. 202,714 115,130 35,627 35,679 78,055 420,684 Frequency standardization expense charged this year. 258,203 146,814 40,255 42,879 104,055 579,304 B. OPERATING STATEMENTS REVENUE 348,937 75,902 76,394 183,204 1,089,225 B. OPERATING STATEMENTS REVENUE 348,937 21,880 25,104 57,864 306,833 Other. 584 1,288 146 177 243 6,847 Total revenue. 176,434 146,847 22,026 25,281 58,107 313,680 EXPENSE Power purchased. 111,794 97,371 14,279 11,660 40,135 190,471 Local generation and maintenance. 17,113 5,104 1,348 1,854 4,514 36,858 Administration. 20,525 10,561 <td>Equity in Ontario Hydro Systems</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Equity in Ontario Hydro Systems						
Debentures redeemed		312,397	63,530	35,478	5,506	76,844	401,801
Accumulated net income invested in plant or held as working funds. Frequency standardization expense charged this year. 258,203	Debentures redeemed			4,628		1	
Total capital	plant or held as working funds. Frequency standardization expense	202,714					
B. OPERATING STATEMENTS REVENUE Sales of electric energy 175,850 145,559 21,880 25,104 57,864 306,833 Other 584 1,288 146 177 243 6,847					1		
B. OPERATING STATEMENTS Sales of electric energy	Total capital		-				
REVENUE Sales of electric energy. 175,850 145,559 21,880 25,104 57,864 306,833 Other. 584 1,288 146 177 243 6,847 Total revenue. 176,434 146,847 22,026 25,281 58,107 313,680 EXPENSE Power purchased. 111,794 97,371 14,279 11,660 40,135 190,471 Local generation. 5,275		303,227	010,707	10,702	10,071	100,201	1,007,220
Sales of electric energy. 175,850 (584) 145,559 (1,288) 21,880 (146) 25,104 (177) 243 (6,833) 306,833 (6,847) Total revenue. 176,434 146,847 22,026 25,281 58,107 313,680 EXPENSE Power purchased. 111,794 (11,794) 97,371 (14,279) 11,660 (14,279) 40,135 (190,471) Local generation. 5,275 (14,279) 11,660 (14,279) 40,135 (190,471) Operation and maintenance. 17,113 (14,279) 11,484 (14,279) 11,660 (14,279) Fixed charges—interest and principal depreciation. 20,525 (10,561) (1,453) (1,453) (1,454) 1,545 (6,523) (27,256) Fixed charges—interest and principal depreciation. 10,610 (6,814) (1,072) (1,234)							
EXPENSE 111,794 97,371 14,279 11,660 40,135 190,471 Local generation 5,275 36,858 Operation and maintenance 17,113 5,104 1,348 1,854 4,514 36,858 Administration 20,525 10,561 1,453 1,545 6,523 27,256 Fixed charges—interest and principal —depreciation 1,262 10,159 2,808 24 13,728 —other 10,610 6,814 1,072 1,234 3,546 14,328 —other 161,304 135,284 18,152 19,101 54,742 282,641 Net income or net expense 15,130 11,563 3,874 6,180 3,365 31,039	Sales of electric energy						
Power purchased	Total revenue	176,434	146,847	22,026	25,281	58,107	313,680
Operation and maintenance. 17,113 5,104 1,348 1,854 4,514 36,858 Administration. 20,525 10,561 1,453 1,545 6,523 27,256 Fixed charges—interest and principal —depreciation. 10,610 6,814 1,072 2,808 24 13,728 —other. 10,610 6,814 1,072 1,234 3,546 14,328 Total expense. 161,304 135,284 18,152 19,101 54,742 282,641 Net income or net expense 15,130 11,563 3,874 6,180 3,365 31,039		111,794	97,371	14,279	11,660	40,135	190,471
Administration 20,525 10,561 1,453 1,545 6,523 27,256 Fixed charges—interest and principal —depreciation 1,262 10,159 2,808 24 13,728 —other 10,610 6,814 1,072 1,234 3,546 14,328 Total expense 161,304 135,284 18,152 19,101 54,742 282,641 Net income or net expense 15,130 11,563 3,874 6,180 3,365 31,039				1,348	1,854	4,514	36,858
—depreciation. 10,610 6,814 1,072 1,234 3,546 14.328 —other. 161,304 135,284 18,152 19,101 54,742 282,641 Net income or net expense 15,130 11,563 3,874 6,180 3,365 31,039	Administration	20,525		1			
Total expense 161,304 135,284 18,152 19,101 54,742 282,641 Net income or net expense 15,130 11,563 3,874 6,180 3,365 31,039	—depreciation	10,610	6,814	1,072	1,234		14.328
Net income or <i>net expense</i>	other		-				
	Total expense	161,304	135,284	18,152	19,101	54,742	282,641
Number of customers	Net income or net expense	15,130	11,563	3,874	6,180	3,365	31,039
	Number of customers	1,678	1,357	252	293	866	3,233

Tara	Tavistock	Tecumseh	Teeswater	Thamesford	Thamesville	Thedford	Thornbury	Thorndale
496	1,169	4,401	856	771	1,020	723	1,112	428
\$ 39,901 <i>9,053</i>	\$ 92,958 27,785	\$ 201,122 56,476	\$ 70,904 11,258	\$ 62,926 10,627	\$ 91,725 20,479	\$ 45,637 7,158	\$ 130,689 10,490	\$ 28,575 8,509
30,848	65,173	144,646	59,646	52,299	71,246	38,479	120,199	20,066
2,063 8,000 243	12,215	6,442	1,816 19,000 64	1,150	6,814 7,000 1,082	4,125 14,912 2,119	2,283 4,000 3,082	4,143 3,000 176
10,306	13,189	10,515	20,880	1,322	14,896	21,156	9,365	7,319
105	6,347	21,916	567	69	2,262	907	833	68
	397		99		5,882	239		1,070
105 31,567	6,744 146,637	21,916 108,442	666 47,340	69 59,529	8,144 64,576	1,146 37,173	833 16,467	1,138 28,490
72,826	231,743	285,519	128,532	113,219	158,862	97,954	146,864	57,013
237	23,931 899 1,187	242 1,965	602 54	2,300	144 1,199	33 334	26,057 28 385	47 6
237	26,017	2,207	656	2,768	1,343	367	26,470	53
31,567	146,637	108,442	47,340	59,529 7	64,576 125	37,173 34	16,467	28,490 28
31,567	146,637	108,442	47,340	59,536	64,701	37,207	16,467	28,518
14,264	11,713	26,000	21,296	6,058	11,188	16,500	59,943 .	3,086
26,758	47,376	148,870	59,240	44,857	81,630	43,880	43,984	25,356
41,022	59,089	174,870	80,536	50,915	92,818	60,380	103,927	28,442
72,826	231,743	285,519	128,532	113,219	158,862	97,954	146,864	57,013
15,529 325	49,817 269	80,538 1,241	29,098 636	35,354 115	41,159 214	22,897 396	43,423 306	12,764 85
15,854	50,086	81,779	29,734	35,469	41,373	23,293	43,729	12,849
12,878	30,264	45,669	22,368	21,056	24,856	14,960	20,802	8,162
1,507	6,408 3,206	13,414 13,928	1,571 2,104	865 1,931	5,073 3,134	1,333 2,112	7,255 3,770 3,318	936 1,124
1,050	2,260 2,885	13,928 4 5,734	11 1,792	1,931 187 1,544	2,488	1,158	2,861 1,898	861
	2,003				2,700			
16,543	45,023	78,749	27,846	25,583	35,551	19,563	39,904	11,083
689	5,063	3,030	1,888	9,886	5,822	3,730	3,825	1,766
233	495	1,318	339	313	436	296	512	133

Municipality	Thornton	Thorold	Tilbury	Tillsonburg	Toronto	Toronto Twp.
Population	295	8,272	2,944	6,370	662,401	53,219
A. BALANCE SHEETS						
FIXED ASSETS	\$	\$	\$	\$	\$	s
Plant and facilities at cost	16,353	531,247	204,061	643.349	88,665,984	4,627,603
Accumulated depreciation	9,403	72,353	57,268	60,766	24,945,440	475,450
Net fixed assets	6,950	458,894	146,793	582,583	63,720,544	4,152,153
CURRENT ASSETS						
Cash on hand and in bank	3,870	51,503	9,171	200	79,582	145,798
Investment in government securities Accounts receivable	599	4,084	10,000 1,697	2,038	1,945,085 5,905,926	307,337 252,992
T 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4,469	55,587	20,868	2,238	7,930,593	706,127
Total current assets	4,409	33,301	20,808	2,236	7,930,393	700,127
Inventory of stores, tools and equip-						
ment at cost less depreciation.	106	38,227	9,547	82,992	5,549,184	308,020
Sinking fund on local debentures				4.70	68,756	
Miscellaneous		239	77	178	561,178	51,119
Total other assets	106	38,466	9,624	83,170	6,179,118	359,139
Equity in Ontario Hydro Systems	11,482	512,747	193,977	331,203	68,523,741	1,042,953
	23,007	1,065,694	371,262	999,194	146,353,996	6,260,372
LIABILITIES		102 004	45,000	115,488	13,562,500	1,192,875
Debentures outstanding	3	102,884 17,940		13,462	2,828,333	86,110
Accounts payable	67	35,748	980	12,661	574,716	348,149
Other						
Total liabilities	70	156,572	45,980	141,611	16,965,549	1,627,134
RESERVES	11 400	F10.747	102 077	331,203	60 502 741	1 042 052
Equity in Ontario Hydro Systems Other	11,482	512,747 320	193,977 3,699	3,150	68,523,741 1,359,786	1,042,953 20,923
	11,482	513,067	197,676	334,353	69,883,527	1,063,876
Total reserves	11,402	313,007	197,070	334,333	09,003,327	1,003,070
Debentures redeemed	7,200	27,116	19,000	100,512	30,525,935	415,577
Local sinking fund					68,756	
Accumulated net income invested in						
plant or held as working funds. Frequency standardization expense	4,255	368,939	114,783	456,548	28,910,229	3,153,785
charged this year			6,177	33,830		
Total capital	11,455	396,055	127,606	523,230	59,504,920	3,569,362
	23,007	1,065,694	371,262	999,194	146,353,996	6,260,372
		1				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B. OPERATING STATEMENTS						
REVENUE	6 000	404 703	00.040	077 047	34,854,893	275466
Sales of electric energy Other	6,286	491,793 1,156	86,240 1,122	277,217	34,854,893	2,754,664 13,799
	(205			-		
Total revenue	6,287	492,949	87,362	279,054	35,240,411	2,768,463
EXPENSE	3.949	274.004	16.662	144 7722	10.000.301	4 7777 4 40
Power purchased	- ,	374,984	46,662	141,732	19,996,386	1,775,442
Operation and maintenance	337	50,668	10,996	32,346	4,698,997	121,768
Administration	342	23,456	10,487	26,833	3,971,684	151,206
Fixed charges—interest and principal		9,395	4,553	15,702	946,303	117,063
—depreciation	431	11,936	5,987	14,112	2,914,564	99,814
—other						
Total expense	5,059	470,439	78,685	230,725	32,527,934	2,265,293
Not become on not appoint	1 220	22 510	9 (77	49.220	2.712.477	502 170
Net income or net expense	1,228	22,510	8,677	48,329	2,712,477	503,170
Number of customers	100	2 524	1.005	2.402	204 204	14.044
Number of customers	100	2,524	1,005	2,402	204,294	14,042

272	5,588	3,894	602	845	529	462	1,258	2,742
3,123	141,460	37,249	460	4,735	12,409	2,730	9,985	64,074
18,077	619,107	543,856	40,735	70,925	30,080	17,946	113,407	370,859
					2,007	1,357	5,046	23,719
838 980	76,436 27,260	16 24,803	3,123	3,245	3,493 2,887	1,238		
1,693 1,126	66,438 44,481	25,491 33,545	2,490 4,605	7,118 5,979	2,826 4,030	2,232 1,562	8,938 14,952	27,198 33,987
13,440	404,492	460,001	30,517	54,583	16,844	11,557	84,471	285,955
21,290	760,567	581,105	40,275	75,660	42,489	20,676	123,392	434,933
20,945	757,305 3,262	577,124 3,981	39,083 1,192	75,018 642	42,129 360	20,676	120,151 3,241	429,668 5,265
79,880	1,702,797	1,375,602	209,707	233,725	106,931	72,967	462,420	1,701,592
37,602	596,386	779,012	149,723	141,552	60,040	37,228	283,489	880,376
20,003	469,745	614,425	130,723	126,188	.52,040	29,349	226,741	808,840
17,599	126,641	164,587	19,000	15,364	8,000	7,879	56,748	71,536
37,704	157,129	576,203	59,266	88,471	6,866	24,316	137,441	813,922
37,704	2,100	576,203	58,928 338	88,260 211	6,866	24,316	136,868 573	813,690 232
4,574 37,704	949,282 155,029	20,387	718	3,702	40,025	11,423	41,490	7,204
738	836,064 78,743 34,475	4,269 16,118	244 474	1,780 1,922	38,000	11,000 418 5	39,046 2,444	7,195
					100,731	72,907	462,420	1,701,502
79,880	1,702,797	1,375,602	58,928 209,707	233,725	106,931	24,316 72,967	136,868	813,690
496 37,704	129,648 155,029	50.090 576,203	699	11,833		1,191	25,510	83,273
	18,103	500		200		1,142	25,382	83,273
496	111,545	49,590	29,342	27,870	6,422	4,540	84,501	153,755
1,447	39,726	13,390	804	12,500 877 35		991	43,000 5,458	9,443
6,503 5,500	75	5,421 65,000	4,038 24,500	14,493 6,387		3,549	36,043	144,312
28,230	1,378,319	665,498	120,738	105,762	93,643	42,920	215,541	650,784
\$ 35,829 7,599	\$ 1,427,647 49,328	\$ 890,484 224,986	\$ 134,702 13,964	\$ 127,028 21,266	\$ 113,445 19,802	\$ 52,057 9,137	\$ 236,086 20,545	\$ 851,265
732	25,107	12,105	1,642	2,236	Hill 1,670	Harbour 951	3,717	burg 7,997
Tottenham	Trafalgar Twp.	Trenton	Tweed	Uxbridge	Vankleek	Victoria	Walkerton	Wallace-

Wardsville 330	Warkworth	Wasaga Beach	Waterdown	Waterford	Waterloo
330		Beach			
0.50	527	440	1,828	2,040	18,317
\$ 23,211	\$ 44,830 6,066	\$ 132,488 <i>36,394</i>	\$ 103,765 25,372	\$ 111,283 23,615	\$ 1,506,850 <i>300,357</i>
1 6 700	38,764	96,094	78,393	87,668	1,206,493
1,476	1,456 3,000	19,943 15,000	8,820	50	300
	293	2,715	1,238	515	20,479
	4,749	37,658	10,058	565	20,779
	714	11,029	414	3,281	122,849
		600	368	150	6,76
	714 17,742	11,629 10,626	782 76,955	3,431 106,817	129,61 1,042,05
37,100	61,969	156,007	166,188	198,481	2,398,942
	8,000	76,000	11,000	19,400	490,50 27,52
	154	80	517	1,667	25,19
. 2,591	8,155	76,277	11,532	25,400	543,21
	17,742	10,626 146	76,955	106,817	1,042,05
. 14,949	17,742	10,772	76,955	106,817	1,042,12
		34,000	12,000	8,346	265,50
in s. 11,998		34,958	65,701	66,417	548,10
				8,499	
. 19,560	36,072	68,958	77,701	66,264	813,60
37,100	61,969	156,007	166,188	198,481	2,398,94
		52,008 1,681	55,886 289		756,83 1,8-
9,271	14,233	53,689	56,175	53,365	758,6
			24.740	24.210	460.2
					460,3
				2 000	60,1 53,2
pal 72	2 2	7,880	1,592	1,589	56,6 39,5
		3,994	2,913	3,037	
7,850	11,172	47,809	49,438	49,669	669,9
1,421	3,061	5,880	6,737	3,696	88,7
	23,211 6,482 16,729 1,476 1,500 660 3,636 . 1,811 14,924 37,100 . 2,476 115 . 2,591 . 14,924 . 25 . 14,949 . 7,562 . 11,998	23,211	23,211	23,211	23,211

	1	1	1					
Watford	Wau-	Welland	Wellesley	Wellington	West Lorne	Weston	Westport	Wheatley
1,210	baushene V. A.	17,559	677	1,009	1,090	9,485		
				1,007	1,090	9,403	701	1,250
\$	\$	\$	\$	\$		s	6	
84,012	41,530	1,626,712	42,540	61,135	99,729	1,017,764	\$ 35,134	\$ 128,088
25,723	6,752	343,127	5,757	23,969	28,421	174,751	3,989	20,098
58,289	34,778	1,283,585	36,783	37,166	71,308	843,013	31,145	107,990
7,986		184,789	1,912	1,658	13,812	30,060		
13,166		22,000	1,000	20,000	5,000	30,000	3,749 8,000	9,001
1,963	918	9,413	103	547	344	9,549	6	469
23,115	918	216,202	3,015	22,205	19,156	39,609	11,755	9,470
2,439	872	54,013	18	5,490	2,299	42,376	273	2,001
194	16	39,487	72	340	87	14,893 6,272		
2,633	888	93,500	90	5,830				
94,084	20,894	1,280,749	49,048	46,672	2,386 97,326	63,541 858,166	273 24,885	2,001 61,662
178,121	57,478	2,874,036	88,936	111,873	190,176	1,804,329	ļ	
				111,070	170,170	1,004,329	68,058	181,123
		524,000	4,400			193,113		26,958
317 700	262	62,620 24,067	461 228	348 877	921 135	32,326		142
	ļ					22,499	294	315
1,017	297	610,687	5,089	1,225	1,056	247,938	294	27,415
94,084	20,894	1,280,749	49,048	46,672	97,326	858,166	24,885	61,662
	27	397	*********	• • • • • • • • • • • • • • • • • • • •	7	937		66
94,084	20,921	1,281,146	49,048	46,672	97,333	859,103	24,885	61,728
9,055	3,242	305,250	8,100	13,816	8,000	113,632	15,000	25,042
						14,893		
73,965	33,018	676,953	26,699	50,160	83,787	568,763	27,879	66,938
83,020	36,260	982,203	34,799	63,976	91,787	697,288		01.000
							42,879	91,980
178,121	57,478	2,874,036	88,936	111,873	190,176	1,804,329	68,058	181,123
57,969	19,686	706,200	22,544	25 502	#c 00#	464.06		
1,023	42	4,004	31	25,592 863	56,285 3,151	461,265 12,528	19,858 538	52,924 10
58,992	19,728	710,204	22,575	26,455	59,436			
	17,720	710,204	22,010	20,433	39,430	473,793	20,396	52,934
39,779	10,999	449,709	14,617	18,571	37,903	287,629	11,053	30,878
3,460 6,581	2,548 1,715	53,898 60,324	1,541 1,461	3,875 2,694	6,146 5,897	37,003 45,008	1,522 3,147	4,401 4,187
	36	41,035	445			20,808	3,147	3,569
2,567	1,050	42,257	1,023	1,292	2,961	24,624	860	3,218
52,387	16,348	647,223	19,087	26,432	52,907	415,072	16,582	46,253
((0.5		()						
6,605	3,380	62,981	3,488	23	6,529	58,721	3,814	6,681
F22	420	F 260	274	520	440	2.062		
523	428	5,269	274	530	418	3,263	285	471

Southern Ontario System S						
Municipality	Whitby	Wiarton	Williams- burg	Winchester	Windermere	Windsor
Population	10,543	1,953	340	1,348	129	119,319
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 881,174 139,604	\$.108,129 .14,251	\$ 21,102 5,539	\$ 88,687 18,454	\$ 27,936 6,267	\$ 11,078,486 3,446,669
Net fixed assets	741,570	93,878	15,563	70,233	21,669	7,631,817
CURRENT ASSETS Cash on hand and in bank Investment in government securities Accounts receivable	27,870 10,000 24,277	7,661 24,000 1,205	1,638 15,000 150	9,384	6,779 5,400 215	1,500 1,973,816 505,122
Total current assets	62,147	32,866	16,788	9,527	12,394	2,480,438
OTHER ASSETS Inventory of stores, tools and equipment at cost less depreciation. Sinking fund on local debentures Miscellaneous	41,251	1,199	389	1,000	62224	479,534 171,346 1,115
Total other assets Equity in Ontario Hydro Systems	41,251 293,574	1,199 78,043	389 22,063	2,000 81,624	286 11,358	651,995 11,030,570
	1,138,542	205,986	54,803	163,384	45,707	21,794,820
LIABILITIES Debentures outstandingAccounts payableOther.	76,000 135,520 15,449	176 172	368	540 10	64	190,000 274,469 167,355
Total liabilities	226,969	348	368	550	64	631,824
RESERVES Equity in Ontario Hydro Systems Other	293,574	78,043 23	22,063 311	81,624	11,358 90	11,030,570 252,629
Total reserves	293,574	78,066	22,374	81,624	11,448	11,283,199
CAPITAL Debentures redeemed	100,612	37,400	2,750	29,206	11,238	2,393,832 171,346
Local sinking fund	517,387	90,172	29,311	52,004	22,957	7,314,619
charged this year						
Total capital	617,999	127,572	32,061	81,210	34,195	9,879,797
	1,138,542	205,986	54,803	163,384	45,707	21,794,820
D OPPDARING CRATEMENTS						
B. OPERATING STATEMENTS REVENUE	468,155	59,373	9,043	54,401	9,239	4,209,659
Sales of electric energy Other	3,251	808	514	307	238	128,836
Total revenue	471,406	60,181	9,557	54,708	9,477	4,338,495
EXPENSE Power purchased	278,312	44,098	8,413	37,885	4,221	2,684,869
Local generation Operation and maintenance		8,513	412	3,396		625,941
Administration	48,468	6,239	809	3,250 1,540	812	465,320
depreciation	20,335	2,599	621	2,385		337,345
—other Total expense	386,578	61,449	10,255	48,456		4,113,475
Total capelise		31,117	23,230	25,200		
Net income or net expense	84,828	1,268	698	6,252	2,786	225,020
Number of customers	3,529	754	153	533	119	37,057

Wingham	Woodbridge	Woodstock	Woodville	Wyoming	York Twp.	Zurich	Tomas
2,677							TOTAL SOUTHERN
2,077	2,129	18,852	409	813	119,966	624	Ontario
\$	\$	s	\$	s	0		
252,211	148,254	1,679,296	26,079	52,087	\$ 6,421,485	\$ 40,022	\$ 333,580,068
77,904	31,767	403,714	4,327	13,955	1,722,969	5,566	69,080,840
174,307	116,487	1,275,582	21,752	38,132	4,698,516	34,456	264,499,228
15,080	26,408	8,584	1,717	4,287	364,137		
60,000	24,525	135,000		9,120	554,000	1,534	9,969,306 12,377,183
214	1,518	16,302	248	2,481	223,387	143	13,413,472
75,294	52,451	159,886	1,965	.15,888	1,141,524	1,677	35,759,961
17,280	28	41,122		451	168,564	325	16,364,190
1 260		7.405					1,033,436
1,260		7,405	100	471	2,316		2,189,409
18,540 162,054	28 151,384	48,527 1,492,371	100 30,076	922 31,942	170,880	325	19,587,035
				,	3,435,586	44,686	207,130,246
439,195	320,350	2,976,366	53,893	86,884	9,446,506	81,144	526,976,470
	13,500	113,563					67,094,210
7.000	1,784	8,632	3,013	439	287,795	568	9,639,515
3,208	3,137	17,269	30	63	397,508		5,768,380
3,208	18,421	139,464	3,043	502	685,303	568	82,502,105
162,054 91	151,384 453	1,492,371 9,829	30,076 478	31,942	3,435,586	44,686	207,130,246
		9,029	478	.64	55,609		3,372,044
162,145	151,837	1,502,200	30,554	32,006	3,491,195	44,686	210,502,290
81,155	10,000	313,822	5,248	9,700	489,375	5,592	72,221,724
							1,033,436
183,687	140,092	1,050,849	15,048	44,676	4,780,633	30,298	161,262,948
		29,969					546,033
264,842	150,092	1,334,702	20,296	54,376	5,270,008	35,890	233,972,075
430,195	320,350	2,976,366	53,893	86,884	9,446,596	81,144	526,976,470
110,296	111,454	904,340	13,141	25,241	3,044,134	22,265	152,873,787
3,715	699	4,340	15	182	37,133	3	1,622,716
114,011	112,153	908,680	13,156	25,423	3,081,267	22,268	154,496,503
71.000	77.00	F.(0.05)					
71,823 2,814	75,094	569,373	8,338	13,747	2,015,315	13,914	93,902,960 488,389
7,924	3,356	81,354	1,173	1,743	289,934	3,086	14,727,996
11,702	5,824	48,654	966	1,123	294,629	2,120	12,942,207
7 876	1,116	36,764	652	1 521	102.602	000	5,902,886
7,876	4,044	48,356	653	1,521	192,692	989	8,848,653 9,060
102,139	89,434	784,591	11,130	18,134	2,792,570	23,109	136,822,151
11,872	22,719	124,179	2,026	7,289	288,697	2,159	17,674.352
4.042	7.10					205	1 100 544
1,019	748	6,429	187	318	38,872	287	1,188,544

Northern Ontario Properties

Municipality	Atikokan	Cache Bay	Capreol	Chapleau	Cochrane	Coniston
Population	Twp. 6,430	896	2,474	Twp. 3,714	4,396	2,549
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 451,354 50,197	\$ 50,496 7,636	\$ 153,737 23,768	\$ 116,779 4,680	\$ 343,130 57,448	\$ 84,751 7,311
Net fixed assets	401,157	42,860	129,969	112,099	285,682	77,440
CURRENT ASSETS Cash on hand and in bank	70,501	6,381	5,387	100	42,303	14,841
Investment in government securities Accounts receivable	50,000 5,176	7,923 1,376	909	3,851	3,578	7,953
Total current assetsOTHER ASSETS	125,677	15,680	6,296	3,951	45,881	22,794
Inventory of stores, tools and equip- ment at cost less depreciation	10,974	257	646	2,440	27,036	1,524
Sinking fund on local debentures Miscellaneous	763	93	188	4,705	846	174
Total other assets Equity in Ontario Hydro Systems	11,737 20,792	350	834	7,145	27,882	1,698
	559,363	58,890	137,099	123,195	359,445	101,932
LIABILITIES Debentures outstandingAccounts payableOther	375,000 9,379 37,331	12,000	37,500 1,917 1,020	103,000 199 1,789	107,500 8,505 11,017	47,000 6,930 7,357
Total liabilities	421,710	12,610	40,437	104,988	127,022	61,287
RESERVES Equity in Ontario Hydro Systems Other	20,792	76	390		555	152
Total reserves	20,792	76	390		555	152
CAPITAL Debentures redeemed Local sinking fund	25,000	16,000	31,500	12,000	37,500	3,000
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	91,861	30,204	64,772	6,207	194,368	37,493
charged this year						
Total capital	116,861	46,204	96,272	18,207	231,868	40,493
	559,363	58,890	137,099	123,195	359,445	101,932
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other	230,737 4,109	22,195 432	91,921 931	127,487	165,843 652	47,36
Total revenue	234,846	22,627	92,852	127,487	166,495	47,370
EXPENSE Power purchased		. 13,136	57,929	86,721	80,074	28,30
Local generation Operation and maintenance	16,847	825	7,225	7,857	24,041	2,98
AdministrationFixed charges—interest and principal	32,468 31,225	1,686 2,563	11,330 3,876	8,250 10,242	20,520	4,46 3,81
—depreciation		1,162	3,814	2,413	8,502	1,90
Total expense	l	19,372	84,174	115,483	146,124	41,47
	16 076	2 255	9 4 7 9	12,004	20,371	5,90
Net income or net expense	16,976	3,255	8,678	12,001	20,011	,,,,,

Duvdon	Fort	Hearst	Kapuskas-	Larder	Latchford	Massey	McGarry	Nipigon
Dryden	William	IICarst	ing	Lake Twp.				Twp.
4,993	41,791	2,326	5,911	1,993	440	1,176	3,007	2,682
			_					\$
\$	\$	\$	\$	\$ 720	\$	\$ 70.827	\$ 68,056	133,862
355,404 80,543	3,283,033 653,997	217,638 30,148	328,099 13,578	61,729 19,349	25,818 4,618	2,931	12,746	22,840
. 274,861	2,629,036	187,490	314,521	42,380	21,200	67,896	55,310	111,022
	1,250	26,993	8,941	10,870	9,499	7,245	1,387	10,850
33,137	270,800	40,000	0,711	10,070				20,000
12,275	117,215	832	2,739	1,023	796	1,747	438	1,795
45,412	389,265	67,825	11,680	11,893	10,295	8,992	1,825	32,645
10,563	231,257	3,145	19,981	116	68	1,835	99	10,506
	5,000	1,692	627				464	
				116	68	1,835	563	10,506
10,563 36,702	236,257 3,940,915	4,837	20,608	116		1,033		71,553
367,538	7,195,473	260,152	346,809	54,389	31,563	78,723	57,698	225,726
				0.500		20.600	7 000	
77,905	299,000	71,100	46,017	8,500	604	39,600	7,000	
16 504	186,809	920 8,854	3,681 9,247	4,659 6,028	694 385	188 1,198	6,047	2,493
16,581	72,510						13,060	2,493
94,486	558,319	80,874	58,945	19,187	1,079	40,986	13,000	
36,702 455	3,940,915 3,561	314	337	160	39			71,553
37,157	3,944,476	314	337	160	39			71,553
48,525	515,209	68,900	44,462	9,500	18,901	5,400	7,000	10,000
10,020								
187,370	2,177,469	110,064	243,065	25,542	11,544	32,337	37,638	141,680
					,			
225 005	2 602 679	178,964	287,527	35,042	30,445	37,737	44,638	151,680
235,895	2,692,678					78,723	57,698	225,726
367,538	7,195,473	260,152	346,809	54,389	31,563	70,720	1	
					0 711	27 040	53,049	77,964
202,039	1,574,299 19,065	103,867	191,888 1,991	45,019	9,711	37,848 95	33,049	1,688
			193,879	45,019	9,711	37,943	53,049	79,652
203,502	1,593,364	105,267	173,077	45,017				
80,468	996,045	58,530	125,074	31,969	4,637	12,023	37,716	42,252
				3.319	696	8,485	3,214	9,547
27,349	153,954	6,058 8,156	13,393 23,632	4,556	1,070	4,779	6,910	8,471
16,733 9,576	104,891	9,481	8,032	1,569	1,0,0	3,966	1,322	
9,201	82,317	4,033	6,724	1,885	665	1,341	1,778	3,385
143,327	1,368,372	86,258	176,855	43,298	7,069	30,594	50,940	63,655
(0.155	224,992	19,009	17,024	1,721	2,642	7,349	2,109	15,997
69.175							1	
60,175							499	711

Northern Ontario Properties—Concluded

	1					
Municipality	North Bay	Port Arthur	Rainy River	Red Rock	Schreiber	Sioux
Population	22,552	40,250	1,290	1,885	Twp. 2,042	Lookout 2,311
A. BALANCE SHEETS						
FIXED ASSETS	\$ 1 200 270	\$	\$	\$	\$	\$
Plant and facilities at cost	1,389,378 320,481	4,099,916 1,553,371	191,518 36,084	93,345 14,767	118,311 16,953	189,912
	020,701	1,333,371	30,087	14,707	10,933	19,862
Net fixed assets CURRENT ASSETS	1,068,897	2,546,545	155,434	78,578	101,358	170,050
Cash on hand and in bank	43,926	187,322	- 3,358	13,274	16,467	25
Investment in government securities Accounts receivable	24,618	433,000 185,178	11.044	700	15,000	5,000
		165,176	11,044	708	1,081	4,421
Total current assets OTHER ASSETS	68,544	805,500	14,402	13,982	32,548	9,446
Inventory of stores, tools and equip-						
ment at cost less depreciation	69,944	249,854	3,342	402	7.096	12,894
Sinking fund on local debentures						
Miscellaneous	5,481	1,300	• • • • • • • • • • • • • • • • • • • •	1,738		109
Total other assets	75,425	251,154	3,342	2,140	7,096	13,003
Equity in Ontario Hydro Systems		7,424,819		25,582	31,142	
	1,212,866	11,028,018	173,178	120,282	172,144	192,499
LIABILITIES						
Debentures outstanding	381,000	475.706	16,000	16,510	1,500	
Other	1,192 81,293	175,736	121 220	2,638 70	208	9,634
						5,547
Total liabilities	463,485	175,736	16,341	19,218	1,708	15,181
Equity in Ontario Hydro Systems		7,424,819		25,582	31,142	
Other	2,167	109,325	870		31,142	
Total reserves	2,167	7 524 144	970	05.500		
CAPITAL	2,107	7,534,144	870	25,582	31,142	
Debentures redeemed	279,158	626,317	128,526	14,690	48,500	
Local sinking fund Accumulated net income invested in						
plant or held as working funds.	468,056	2,691,821	27,441	60,792	90,794	177,318
Frequency standardization expense				,	20,721	177,010
charged this year						
Total capital	747,214	3,318,138	155,967	75,482	139,294	177,318
	1,212,866	11,028,018	173,178	120,282	172,144	192,499
	1	l e				
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy	821,370	1,630,955	22 741	44 222	54 00F	
Other	884	43,598	22,741 450	.41,223 326	51,225 1.159	114,570 2,057
Total revenue	822,254	1 (54 552				
	022,234	1,674,553	23,191	41,549	52,384	116,627
EXPENSE	400.5					
Power purchased Local generation	498,170	1,098,242 20,851	11,101	21,471	25,374	73,446
Operation and maintenance	72,065	138,606	4,032	2.410	5,077	10,373
Administration	99,982	102,735	2,662	3,021	7,631	13,718
Fixed charges—interest and principal —depreciation	28,936 38,298	74,781	1,896	2,306	1,624	729
-other		4,000	1,141	2,311	2,865	4,393
Total expense	737,451	1,439,215	20,832	31,519		
		2,107,213	20,002	31,319	42,571	102,659
Net income or net expense	84,803	225 220	2.250	10.030	6.014	4.5
or not expense	04,003	235,338	2,359	10,030	9,813	13,968
Number of customers	6.002	40.045				
realist of customers	6,983	12,818	451	329	617	927

\$ 252,208 39,728 212,480 33,394	\$ 3,436,861 518,320	1,820 \$ 152,105	Thessalon 1,742	Webbwood 540	West Ferris Twp. 4,307	TOTAL NORTHERN ONTARIO PROPERTIES	TOTAL ALL SYSTEMS
\$ 252,208 39,728 212,480 33,394	\$ 3,436,861	\$ 152,105				- ROTERTIES	
252,208 39,728 212,480 33,394		152,105	\$				
33,394		29,306	86,640 20,729	* 37,791 899	\$ 333,395 30,736	\$ 16,126,093 3,593,026	\$ 349,706,161 72,673,866
	2,918,541	122,799	65,911	36,892	302,659	12,533,067	277,032,295
0.721	199,986	29,543	22,208	543		799,731	10,769,037
9,731	50,000 90,400	65,000 329	3,020	442	5,120	956,723 497,795	13,333,906 13,911,267
43,125	340,386	94,872	25,228	985	5,120	2,254,249	38,014,210
12,698	161 261	E 642	2.110	(1)	27.447	0.00.4.50	
12,098	161,261	5,643	2,119	616	27,147	873,463	17,237,653
35	1,643		125			24,983	2,214,392
12,733	162,904	5,643 54,690	2,244	616	27,147	898,446 11,606,195	20,485,481 218,736,441
268,338	3,421,831	278,004	93,383	38,493	334,926	27,291,957	554,268,427
87,000	252,218	46,800	59,000	26,432	152.000	2 260 502	60 262 702
10,204	8,706	40,000	1,460	631	31,526	2,269,582 465,950	69,363,792 10,105,465
9,539	109,431		1,697	176	16,380	406,820	6,175,200
106,743	370,355	46,800	62,157	27,239	199,906	3,142,352	85,644,457
526	15,800	54,690	64		540	11,606,195 135,331	218,736,441 3,507,375
526	15,800	54,690	64		540	11,741,526	222,243,816
13,000	765,120	31,200	6,000	3,568	30,500	2,799,476	75,021,200
							1,033,436
148,069	2,270,556	145,314	25,162	7,686	103,980	9,608,603	170,871,551
							546,033
161,069	3,035,676	176,514	31,162	11,254	134,480	12,408,079	246,380,154
268,338	3,421,831	278,004	93,383	38,493	334,926	27,291,957	554,268,427
127,603	1,732,529	56.423	51,769	16,213	179,117	7,826,972	160,700,759
1,156	13,552	3,970	457		1,826	101,270	1,723,986
128,759	1,746,081	60,393	52,226	16,213	180,943	7,928,242	162,424,745
77.600	022.052	00.000	04.040	5.007	04.052	1.600.404	00 562 454
77,608	923,050	28,020	24,849	5,067	91,973	4,660,491 20,851	98,563,451 509,240
17,966	254,064	2,195	3,492	3,519	16,470	816,064	15,544,060
19,889	166,017	5,100	9,992	3,066	20,448	712,179	13,654,386
8,670	69,554	5,752	4,768	2,617	16,218	272,887	6,175,773
6,256	84,287	3,987	2,339	727	7,341	367,941 4,000	9,216,594 13,060
130,389	1,496,972	45,054	45,440	14,996	152,450	6,854,413	143,676,564
			(80/	1 21-	29 402	1.072.930	10.710.101
1,630	249,109	15,339	6,786	1,217	28,493	1,073,829	18,748,181
1,630	249,109	15,339	6,786	1,217	1,624	67,261	1,255,805

INTRODUCTION TO STATEMENT "C" AND STATEMENT "D"

STATEMENT "C"

Statement "C" is the schedule of resale rates for domestic, commercial, and power service in the municipal distribution systems receiving power from the Commission. From time to time as revision becomes necessary these rates are adjusted to the new rate structures introduced in 1956.

Description of Classes of Service

Domestic rates are applicable to all electrical service for household purposes, with the exception of house heating and flat-rate water-heaters. The account for normal domestic service consists of specified blocks of kilowatt-hours per month with suitable rates for each block. The account is subject to a minimum monthly charge and to a prompt payment discount of 10 per cent. For comparative purposes, net monthly bills are shown for metered energy consumptions of 100, 300, and 500 kilowatt-hours per month.

The water-heater rates shown in Statement "C" are for unmetered flatrate service which is billed at a monthly rate per 100 watts of heater capacity. In many municipalities the flat-rate water-heater load is subject to peakload control by the utility. The customer, of course, has the option of paying for water heating at regular rates through the regular metered service. House-heating rates quoted are for separately metered consumption where an area greater than 25 per cent of the total is heated by electricity.

Commercial rates are applicable to all electrical service supplied to stores, offices, churches, schools, public buildings, institutions, hospitals, hotels, restaurants, service stations, and other premises used for commercial purposes. The commercial rates are also used for billing sign and display lighting. In most municipalities on the new rate structures, commercialtype customers having connected loads of less than five kilowatts are billed at domestic rates. Otherwise commercial accounts consist of a monthly demand rate (with a minimum) applied to the customer's billing demand, plus energy rates for specified blocks of kilowatt-hours used, the size of the blocks varying in accordance with the customer's billing demand. The energy rates, depending on whether the old or new rate structures are in effect, are applied to either one or two blocks of kilowatt-hours based on 100 hours' monthly use of the billing demand, all remaining monthly kilowatthours being billed at a final energy rate. The account is subject to a minimum monthly charge and to a prompt payment discount of 10 per cent. The net monthly bills shown are calculated on the basis of a demand of one kilowatt for a use per month of 100, 200, and 300 hours. The corresponding bill for a demand of ten kilowatts for the same number of hours' use would be ten times the amounts shown, and for x kilowatts would be x times the amounts shown.

The rates for power service to customers of the municipal utilities and local systems provide for 24-hour unrestricted delivery at secondary distribution voltage. These rates, however, are not applicable to certain industrial customers who are served directly by the Commission.

The power service account, like the commercial service account, consists of a monthly demand rate applied to the customer's billing demand, plus energy rates for specified blocks of kilowatt-hours used, the size of the blocks varying in accordance with the customer's billing demand. The energy rates, depending on whether the old or new rate structures are in effect, are applied either to 50 hours' monthly use of the customer's billing demand at each of the first and second rates or to 100 hours' monthly use at each of these two rates. All remaining monthly kilowatt-hours are billed at a third energy rate. The account is subject to a prompt payment discount of 10 per cent. Customers providing their own step-down transformation are granted, on the basis of their billing demand, an allowance of $27 \, c$ per kilowatt per month gross for service at subtransmission voltage and $17 \, c$ per kilowatt per month gross for service at primary distribution voltage. The net monthly bills shown are calculated on the same basis as for commercial service.

STATEMENT "D"

Statement "D" records revenue, consumption, number of customers, average consumption per customer, and average cost per kilowatt-hour for each of the three main classes of service in all the municipal systems served. The revenue and consumption from house heating and the use of flat-rate water-heaters are included in the totals shown, the flat-rate kilowatt-hours being estimated.

With the introduction of the new rate structures there may be a shift during the year of a substantial group of customers with small connected loads from commercial service rates to domestic service rates. For statistical purposes they will thereafter be included in the domestic service group. If such a shift during the year under review materially distorts the calculated averages of consumption and cost per customer, these averages are omitted.

The average cost per kilowatt-hour shown is the average cost to the customer, that is the average revenue per kilowatt-hour received by the utility. Such a statistical average does not represent the utility's actual cost of delivering one kilowatt-hour. However, a comparison of this average over a number of years is some indication of the trend of cost in any one municipality, and the trend in all municipal systems combined may be seen in the table on page 196 and the graphs on page 197. Other things being equal, the average cost per kilowatt-hour would rise with an increase in rates. Consumption per customer, however, is continuously increasing and domestic customers, in particular, are using an ever-increasing variety of electric appliances, including flat-rate water-heaters. Such increased use, since it is billed at the low rates applicable to higher-consumption blocks of kilowatt-hours, is frequently reflected in a lower average cost per kilowatt-hour.

For power service customers, the relationship between demand (kilowatts required) and energy (kilowatt-hours of use) is an important factor in establishing the individual's average cost per kilowatt-hour. The use of the demand for only a few hours will result in a relatively small total bill but a high average cost per kilowatt-hour; the use of the same demand for several hours will increase the total bill but substantially reduce the average cost per kilowatt-hour. In other words, the average cost per kilowatt-hour varies inversely with the customer's load factor.

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a m	inimum
					Dom	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block			oer kwh for		Net	monthly for	bill
	Flat-rat per or sche	House hea	Number of	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	é No.	é	No.	é	¢	¢	é	\$	\$	\$
Acton	45	1.67	60	3.2			1.3	2,20	4.54	6.88
Ailsa Craig	51		60	3.2			1.2	2.16	4.32	6.48
Ajax	39		50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Alexandria	38		50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Alfred	45		50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Alliston	43	1.67	60	3.1			1.0	2.03	3.83	5.63
Almonte	35		50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Alvinston	54		60	3.5			1.0	2.25	4.05	5.85
Amherstburg	38	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Ancaster Twp. (including										
Ancaster)	43		60	4.2			1.2	2.70	4.86	7.02
Apple Hill	56		60	4.0			1.0	2.52	4.32	6.12
Arkona	43		50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Arnprior	38		50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Arthur	43	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Athens	40		50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Atikokan Twp	40		50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Aurora	42		50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Aylmer	45		60	2.5			1.0	1.71	3.51	5.31
Ayr	44		60	2.9			1.0	1.93	3.73	5.53
Baden	42		50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
†Bala	39		50	4.4	2.2	1.2	1.6	2.07	£ 40	0.64
Bancroft	53		60	3.5	2.2	1.2	1.6 1.3	2.97 2.36	6.48 4.70	8.64 7.04
Barrie	40	1.67	60	2.4			1.0	1.66	3.46	5.26
Barry's Bay	47		50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Bath	40		60	3.5			1.2	2.32	4.48	6.64
Beachville	46		50	2.8	4.4	0.0		4.00	4.4.4	w #0
Beamsville	43		60	2.7	1.4	0.8	1.1	1.89	4.14	5.58
†Beardmore	43		60	4.4		• •	1.2	1.89 2.92	4.05 5.62	6.21 8.32
Beaverton	45		60	2.8			1.2	1.94	4.10	6.26
Beeton	50	1.67	60	3.8			1.2	2.48	4.64	6.80
Rollo Divor	45		50	26	4.0			0.40		= 00
Belle River	45		50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Belleville	35 48		60	1.8			0.8	1.26	2.70	4.14
†Blind River	49		50	3.8	1.9	1.1	1.2	2.00 2.56	4.16 5.62	6.32 7.60
Bloomfield	42	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
	47		60	0.0						
Blyth	47		60	2.9			1.1	1.96	3.94	5.92
Bobcaygeon	40		60	3.4	1.0		1.2	2.27	4.43	6.59
Bolton	52		50 60	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Bowmanville			50	2.4	1.2	0.7	1.9	1.76	3.56	5.36
- Junian vinc	, 50		30	2.4	1.2	0.7	1.0	1.62	3.55	4.81

†Local system

For explanatory notes and water-heating schedules see pages 272 to 275.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1958

are subject to 10% prompt payment discount monthly charge

	COMMERCIAL SERVICE Demand rate per 100 watts 5.0 cents, minimum 50 cents Net monthly bil								Po	WER SI	ERVICE			
pe mini Ene kw	r 100 wa 5.0 cents	cents per e of	1	monthly for use o w of dem	f	Demand rate per kw		í	y rate p or use o kw of d	of			monthly for use o w of den	f
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢ 2.7 2.7 ¶2.5 ¶2.3 ¶2.6	0.8 0.8 0.8	1.2 1.0 0.5 0.5 0.5	\$ 2.88 2.88 2.70 2.52 2.79	\$ 3.96 3.78 3.42 3.24 3.51	\$ 5.04 4.68 3.87 3.69 3.96	\$ 1.35 1.35 1.00 1.00	¢ 2.2 2.5	f 1.8 1.8 2.0	¢ 1.4 1.6	é 0.5 0.5 0.5	6 0.33 0.33 0.33 0.33 0.33	\$ 2.83 3.06 2.52 2.52 2.70	\$ 3.13 3.36 2.97 2.97 3.15	\$ 3.43 3.65 3.27 3.27 3.45
2.6 ¶1.9 3.0 ¶2.8	0.8	1.0 0.5 0.9 0.5	2.79 2.16 3.15 2.97	3.69 2.88 3.96 3.69 4.59	4.59 3.33 4.77 4.14 5.49	1.20 1.00 1.35 1.00	1.9 2.8 	1.1	1.3 1.8 	0.5 0.5	0.30 0.33 0.33 0.33	2.52 1.89 3.28 2.88	2.79 2.34 3.58 3.33	3.06 2.64 3.88 3.63
3.6 3.5 ¶2.9 ¶1.9 ¶2.5 ¶1.5	0.8 0.8 0.8 0.8	1.0 0.5 0.5 0.5 0.5	3.69 3.60 3.06 2.16 2.70 1.80	4.50 3.78 2.88 3.42 2.52	5.40 4.23 3.33 3.87 2.97	1.35 1.00 1.00 1.00 1.00	2.8	2.4 1.4 1.8 1.0	1.8	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33	3.28 3.06 2.16 2.52 1.80	3.58 3.51 2.61 2.97 2.25	3.88 3.81 2.91 3.27 2.55
¶3.0 ¶1.9 2.0 2.4 ¶2.3	0.8 0.8 0.8	0.5 0.5 0.7 0.9 0.5	3.15 2.16 2.25 2.61 2.52	3.87 2.88 2.88 3.42 3.24	4.32 3.33 3.51 4.23 3.69	1.00 1.00 1.20 1.20 1.00	1.7 2.1	2.0 1.4 1.7	1.2 1.4	0.5 0.5 0.5	0.33 0.33 0.30 0.30 0.33	2.70 2.16 2.38 2.65 2.43	3.15 2.61 2.65 2.92 2.88	3.45 2.91 2.92 3.19 3.18
4.2 3.0 2.0 ¶2.6 3.0	0.8 0.8 	0.5 1.2 0.8 0.5 1.2	4.23 3.15 2.25 2.79 3.15	4.95 4.23 2.97 3.51 4.23	5.40 5.31 3.69 3.96 5.31	1.00 1.20 1.00 1.00 1.35	2.1 1.4 3.5	2.7	1.4 0.9 2.3	0.5 0.5	0.33 0.30 0.25 0.33 0.33	3.33 2.65 1.93 2.79 3.82	3.78 2.92 2.16 3.24 4.12	4.08 3.19 2.38 3.54 4.42
¶2.4 2.3 3.9 2.2 3.4	0.8	0.5 1.1 1.5 1.0 1.2	2.61 2.52 3.96 2.43 3.51	3.33 3.51 5.31 3.33 4.59	3.78 4.50 6:66 4.23 5.67	1.00 1.20 1.35 1.35 1.35	1.9 2.8 2.0 2.8	1.9	1.3 1.8 1.3 1.8	0.5	0.33 0.30 0.33 0.33 0.33	2.61 2.52 3.28 2.70 3.28	3.06 2.79 3.58 3.00 3.58	3.36 3.06 3.88 3.29 3.88
¶3.0 1.6 2.4 ¶3.6 ¶1.8	0.8 0.8 0.8	0.5 0.6 1.1 0.5 0.5	3.15 1.89 2.61 3.69 2.07	3.87 2.43 3.60 4.41 2.79	4.32 2.97 4.59 4.86 3.24	1.00 1.00 1.35 1.00 1.00	1.3 2.6 	2.2 2.7 1.3	0.8 1.7 	0.5 0.5 0.5	0.33 0.25 0.33 0.33 0.33	2.88 1.84 3.15 3.33 2.07	3.33 2.07 3.45 3.78 2.52	3.63 2.29 3.74 4.08 2.82
2.4 2.9 ¶3.0 2.1 ¶1.7	0.8	1.1 1.0 0.5 0.7 0.5	2.61 3.06 3.15 2.34 1.98	3.60 3.96 3.87 2.97 2.70	4.59 4.86 4.32 3.60 3.15	1.35 1.35 1.00 1.35 1.00	3.1 2.3 2.3	2.1	2.0 1.5 1.5	0.5	0.33 0.33 0.33 0.33 0.33	3.51 2.92 2.79 2.92 1.98	3.81 3.22 3.24 3.22 2.43	4.10 3.52 3.54 3.52 2.73

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

						Kates a	re quoted		and a mi	
					Domes	STIC SER	VICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block		Rate pe			Net	monthly l	bill
	Flat-ra pe or sch	House he	Number of in fir	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Bracebridge	¢ No. 40 40 49 37	¢ 1.67 1.67 1.67	No. 60 50 50 60	\$ 3.0 2.8 4.0 2.6 2.2	¢ 1.4 1.3	6 0.8 0.8	\$ 1.2 1.1 1.3 1.1 1.2	\$ 2.05 1.89 2.38 1.75 1.62	\$ 4.21 4.14 4.72 3.87 3.78	\$ 6.37 5.58 7.06 5.31 5.94
§§Brantford Twp	42 45 42 53 39	2.0	50 50 50 60 50	4.0 2.6 3.0 3.0 2.6	2.0 1.3 1.5 	1.2 0.7 0.9 0.7	1.6 1.0 1.2 0.9 1.0	2.70 1.75 2.02 1.94 1.75	5.94 3.82 4.45 3.56 3.82	8.10 5.08 6.07 5.18 5.08
Brockville. Bronte. Brussels. Burford. Burgessville.	38 43 49 43 52		60 60 60 50 60	2.0 3.0 3.2 3.4 4.0	 1.7	1.0	1.0 1.5 1.0 1.4 1.0	1.44 2.16 2.09 2.29 2.52	3.24 4.86 3.89 5.04 4.32	5.04 7.56 5.69 6.84 6.12
Burk's Falls §Burlington Cache Bay Caledonia Campbellville	45 42 45 43 50	2.0	50 50 50 60 60	3.4 4.0 3.6 2.4 3.0	1.7 2.0 1.8	1.0 1.2 1.1	1.4 1.6 1.5 1.2 1.3	2.29 2.70 2.43 1.73 2.09	5.04 5.94 5.35 3.89 4.43	6.84 8.10 7.33 6.05 6.77
Cannington Capreol Cardinal Carleton Place Casselman	43 40		60 60 55 50 50	3.2 3.5 2.8 3.2 4.2	 1.6 2.1	 1.0 1.2	1.0 1.3 1.1 1.4 1.6	2.09 2.36 1.83 2.16 2.83	3.89 4.70 3.81 4.77 6.21	5.69 7.04 5.79 6.57 8.37
Cayuga	40 48	1.67 1.67	50 50 60 60 50	2.8 4.2 9.0 3.8 2.8	1.4 2.1 1.4	0.8 1.2 0.8	1.1 1.6 4.0 1.4 1.1	1.89 2.83 6.30 2.56 1.89	4.14 6.21 13.50 5.08 4.14	5.58 8.37 20.70 7.60 5.58
Chesley	40	1.67 1.67	60 60 60 50 60	2.7 2.7 3.1 3.2 3.1	 1.6	1.0	1.0 1.1 1.4 1.4 1.2	1.82 1.85 2.18 2.16 2.11	3.62 3.83 4.70 4.77 4.27	5.42 5.81 7.22 6.57 6.43
†Cobalt	36 .44 .35		60 50 50 60 60	4.2 2.0 3.0 3.4 3.8	1.0 1.5	0.7	1.5 1.0 1.2 1.5 1.0	2.81 1.35 2.02 2.38 2.41	5.51 3.01 4.41 5.08 4.21	8.21 4.27 5.85 7.78 6.01

[†]Local system

[•]Annexed to Trafalgar Twp. effective January 1959.

For explanatory notes and water-heating schedules see pages 272 to 275.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1958

are subject to 10% prompt payment discount monthly charge

monthly	y charge	3												
	Cox	IMERCIA	L SERVI	CE					Pow	ER SE	RVICE			
minir Ene kwi	emand ra r 100 wa 5.0 cents num 50 rgy rate h for use kw of de	cents per of	fo	nonthly or use of of dema		Demand rate per kw		fo	rate pe or use of w of de	f		f	monthly or use of v of dema	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
\$\\ 2.0 \\ \\$2.6 \\ 4.0 \\ \\$2.2 \\ 1.8	¢ 0.8 0.8	¢ 1.0 0.5 1.0 0.5 0.7	\$ 2.25 2.79 4.05 2.43 2.07	\$ 3.15 3.51 4.95 3.15 2.70	\$ 4.05 3.96 5.85 3.60 3.33	\$ 1.20 1.00 1.35 1.00 1.20	¢ 1.4 2.0 1.4	. 1.8 	6 0.9 1.3 0.9	6.5 0.5 	0.30 0.33 0.33 0.33 0.30	\$ 2.11 2.52 2.70 2.16 2.11	\$ 2.38 2.97 3.00 2.61 2.38	\$ 2.65 3.27 3.29 2.91 2.65
¶2.9 ¶2.6 ¶2.5 2.5 ¶2.3	0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.7 0.5	3.06 2.79 2.70 2.70 2.52	3.78 3.51 3.42 3.33 3.24	4.23 3.96 3.87 3.96 3.69	1.00 1.00 1.00 1.35 1.00	2.8	2.2 1.4 1.6 1.5	1.8	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.88 2.16 2.34 3.28 2.25	3.33 2.61 2.79 3.58 2.70	3.63 2.91 3.09 3.88 3.00
1.7 2.5 2.7 ¶2.9 3.5	0.8	0.8 1.5 0.8 0.5 0.8	1.98 2.70 2.88 3.06 3.60	2.70 4.05 3.60 3.78 4.32	3.42 5.40 4.32 4.23 5.04	1.20 1.35 1.35 1.00 1.35	1.4 2.2 2.8 2.9	2.1	0.9 1.4 1.8 1.9	0.5	0.30 0.33 0.33 0.33 0.33	2.11 2.83 3.28 2.79 3.37	2.38 3.13 3.58 3.24 3.67	2.65 3.43 3.88 3.54 3.97
¶2.8 ¶2.9 ¶3.5 1.9 2.8	0.8 0.8 0.8	0.5 0.5 0.5 1.1 1.1	2.97 3.06 3.60 2.16 2.97	3.69 3.78 4.32 3.15 3.96	4.14 4.23 4.77 4.14 4.95	1.00 1.00 1.00 1.35 1.35	2.3 3.5	2.3 2.2 3.0 	1.5 2.3	0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.97 2.88 3.60 2.92 3.82	3.42 3.33 4.05 3.22 4.12	3.72 3.63 4.35 3.52 4.42
2.8 3.0 2.3 ¶2.8 ¶3.4	0.8 0.8	0.9 1.1 1.0 0.5 0.5	2.97 3.15 2.52 2.97 3.51	3.78 4.14 3.42 3.69 4.23	4.59 5.13 4.32 4.14 4.68	1.35 1.35 1.35 1.00 1.00	2.2 2.9 2.3	1.8	1.4 1.9 1.5	0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.83 3.37 2.92 2.52 2.88	3.13 3.67 3.22 2.97 3.33	3.43 3.97 3.52 3.27 3.63
¶2.6 ¶3.3 8.5 3.3 ¶2.5	0.8 0.8 0.8	0.5 0.5 4.0 1.2 0.5	2.79 3.42 8.10 3.42 2.70	3.51 4.14 11.70 4.50 3.42	3.96 4.59 15.30 5.58 3.87	1.00 1.00 1.35 1.35 1.00	5.7 2.0	2.1 2.5 2.0	3.8	0.5 0.5 0.5	0.33 0.33 2.00 0.40 0.33	2.79 3.15 5.49 2.70 2.70	3.24 3.60 7.29 3.00 3.15	3.54 3.90 9.09 3.29 3.45
2.3 2.2 2.6 ¶3.1 2.6	0.8	1.0 1.1 1.3 0.5 1.2	2.52 2.43 2.79 3.24 2.79	3.42 3.42 3.96 3.96 3.87	4.32 4.41 5.13 4.41 4.95	1.20 1.35 1.20 1.00 1.35	1.9 2.0 1.9 2.6	2.6	1.3 1.3 1.3 	0.5	0.30 0.33 0.30 0.33 0.33	2.52 2.70 2.52 3.24 3.15	2.79 3.00 2.79 3.69 3.45	3.06 3.29 3.06 3.99 3.74
3.7 ¶1.9 ¶2.4 2.9 3.0	0.8 0.8	1.5 0.5 0.5 1.4 1.0	3.78 2.16 2.61 3.06 3.15	5.13 2.88 3.33 4.32 4.05	6.48 3.33 3.78 5.58 4.95	1.35 1.00 1.00 1.35 1.35	2.0	1.3 1.6	1.3 1.5 1.8	0.5 0.5 	0.33 0.33 0.33 0.33 0.33	2.70 2.07 2.34 2.92 3.28	3.00 2.52 2.79 3.22 3.58	3.29 2.82 3.09 3.52 3.88

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a n	iinimum
					Domi	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block			er kwh or		Ne	t monthly for	bill
	Flat-rat per or sche	■Họuse hea	Number of in firs	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No,	¢	No.	¢	¢	¢	¢	\$	\$	\$
Coldwater	45		60	3.2			1.0	2.09	3.89	5.69
Collingwood	43 52	1.67	60	2.5			1.1	1.75	3.73	5.71
Coniston	43		60	3.3	1.6	1.0	1.2	2.21	4.37	6.53
Cookstown	51		50 45	3.2	1.6	1.0	1.4	2.16	4.77	6.57
	-	• •	13	7.5			1.0	2.24	4.04	5.84
Cottam	41		50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Courtright	43		50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Creemore	53	1.67	50	3.1			1.0	1.84	3.64	5.44
Dashwood	45		50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Deep River	35		50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Delaware	46									
Delhi	43	• •	60	3.8			1.4	2.56	5.08	7.60
Deseronto	40	• •	60	3.2			1.0	2.09	3.89	5.69
Dorchester	43	* *	50 50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Drayton	59		55	2.8	1.4	0.8	1.1	1.89	4.14	5.58
				1.0		• •	1.3	2.51	4.85	7.19
Dresden	44		50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Drumbo	41		60	3.5			1.0	2.25	4.05	5.85
Dryden	49		60	4.5			1.5	2.97	5.67	8.37
Dublin	55		60	3.5			1.1	2.29	4.27	6.25
Dundalk	44		50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Dundas	40									
Dunnville	49	* *	60	2.8			1.1	1.91	3.89	5.87
Durham	42	1.67	60 60	2.6	• •		1.5	1.94	4.64	7.34
Dutton	47	1.07	50	2.7	1.4		1.1	1.85	3.83	5.81
East York Twp	42		50	2.6	1.4	0.8 0.8	1.1 1.1	1.89	4.14	5.58
				2.0	1.5	0.0	1.1	1.75	3.87	5.31
Eganville	42		60	4.3			1.1	2.72	4.70	6.68
†Elk Lake Townsite	42			Spec.				2.30	4.60	6.60
Elmira	45		50	3.0	1.5	0.8	1.2	2.02	4.41	5:85
Elmvale	40		50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Elmwood	39	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Elora	44		60	2.0						
Embro	44	• •	60 60	3.2	• •		1.4	2.23	4.75	7.27
†Englehart	50		60	3.3 4.5	• •		1.1	2.18	4.16	6.14
Erieau	51		60	3.7	• •	• •	1.5	2.97	5.67	8.37
Erie Beach	61		60	5.3			1.0 1.5	2.36 3.40	4.16 6.10	5.96
						• •	1.0	3.40	0.10	8.80
Erin	40	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Essex	51		60	2.9			1.2	2.00	4.16	6.32
Etobicoke Twp. (including										0.00
Thistletown)	37		60	2.7			1.3	1.93	4.27	6.61
Exeter	47	• •	60	3.0			1.3	2.09	4.43	6.77
Fergus	45		60	3.3			1.3	2.25	4.59	6.93

[†]Local system

For explanatory notes and water-heating schedules see pages 272 to 275.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1958

are subject to 10% prompt payment discount monthly charge

	y churg	·												
	Cor	MMERCI	AL SERV	TICE					Pov	VER SE	RVICE			
minii Ene	emand ra r 100 wa 5.0 cents mum 50 ergy rate h for use kw of de	cents per	f	monthly or use of v of dem	Ī	rate per kw		f	y rate p or use c kw of de	of		- f	monthly or use of v of dem	f
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand rate per	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
2.5 2.0 2.8 ¶2.7 3.8	¢ 0.8	¢ 1.0 1.1 1.1 0.5 1.0	\$ 2.70 2.25 2.97 2.88 3.87	\$. 3.60 3.24 3.96 3.60 4.77	\$ 4.50 4.23 4.95 4.05 5.67	\$ 1.35 1.20 1.35 1.00 1.35	2.5 1.6 2.9 	¢ 2.0	¢ 1.6 1.0 1.9 1.3	¢ 0.5	6 0.33 0.30 0.33 0.33 0.33	\$ 3.06 2.25 3.37 2.70 2.70	\$ 3.36 2.52 3.67 3.15 3.00	\$ 3.65 2.79 3.97 3.45 3.29
¶2.8 ¶2.1 2.6 ¶3.1 2.1	0.8 0.8 0.8 0.8	0.5 0.5 0.9 0.5 0.5	2.97 2.34 2.79 3.24 2.34	3.69 3.06 3.60 3.96 3.06	4.14 3.51 4.41 4.41 3.51	1.00 1.00 1.20 1.00 1.00	1.6	2.3 1.6 2.4 1.3	1.0	0.5 0.5 0.5 0.5	0.33 0.33 0.30 0.33 0.33	2.97 2.34 2.25 3.06 2.07	3.42 2.79 2.52 3.51 2.52	3.72 3.09 2.79 3.81 2.82
3.4 2.6 ¶2.2 ¶2.6 3.4	0.8 0.8	1.4 0.8 0.5 0.5 0.7	3.51 2.79 2.43 2.79 3.51	4.77 3.51 3.15 3.51 4.14	6.03 4.23 3.60 3.96 4.77	1.35 1.35 1.00 1.00 1.35	3.1 2.0 2.8	1.6 2.1	2.0 1.3 1.8	0.5 0.5	0.33 0.33 0.33 0.33 0.33	3.51 2.70 2.34 2.79 3.28	3.81 3.00 2.79 3.24 3.58	4.10 3.29 3.09 3.54 3.88
¶2.8 3.0 3.8 3.0 ¶2.6	0.8 0.8	0.5 0.8 2.0 0.8 0.5	2.97 3.15 3.87 3.15 2.79	3.69 3.87 5.67 3.87 3.51	4.14 4.59 7.47 4.59 3.96	1.00 1.35 1.35 1.35 1.00	2.0 2.8 3.4	2.3	1.3 1.8 2.2	0.5	0.33 0.33 0.33 0.33 0.33	2.97 2.70 3.28 3.73 2.61	3.42 3.00 3.58 4.03 3.06	3.72 3.29 3.88 4.33 3.36
2.3 2.2 2.4 ¶2.5 ¶2.0	0.8 0.8	1.0 1.5 1.0 0.5 0.5	2.52 2.43 2.61 2.70 2.25	3.42 3.78 3.51 3.42 2.97	4.32 5.13 4.41 3.87 3.42	1.20 1.35 1.35 1.00 1.00	1.6 2.3 2.2 	2.0	1.0 1.5 1.4 	0.5 0.5	0.30 0.33 0.33 0.33 0.33	2.25 2.92 2.83 2.70 2.07	2.52 3.22 3.13 3.15 2.52	2.79 3.52 3.43 3.45 2.82
3.8 Spec. ¶2.8 ¶2.1 ¶2.3	0.8 0.8 0.8	1.0 0.5 0.5 0.5	3.87 3.50 2.97 2.34 2.52	4.77 4.50 3.69 3.06 3.24	5.67 5.50 4.14 3.51 3.69	1.35 1.00 1.00 1.00	2.5 Spec.	1.9 1.6 1.8	1.6	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33	3.06 3.50 2.61 2.34 2.52	3.36 4.50 3.06 2.79 2.97	3.65 5.50 3.36 3.09 3.27
2.8 2.7 4.0 3.5 4.8		1.4 0.7 1.5 0.9 1.0	2.97 2.88 4.05 3.60 4.77	4.23 3.51 5.40 4.41 5.67	5.49 4.14 6.75 5.22 6.57	1.35 1.35 1.35 1.35 1.35	2.0 3.1 3.1 4.0 4.1	••	1.3 2.0 2.0 2.6 2.7		0.33 0.33 0.33 0.33 0.33	2.70 3.51 3.51 4.18 4.27	3.00 3.81 3.81 4.48 4.57	3.29 4.10 4.10 4.78 4.87
¶2.5 2.4	0.8	0.5 1.0	2.70 2.61	3.42 3.51	3.87 4.41	1.00 1.35	2.0	1.7	1.3	0.5	0.33	2.43 2.70	2.88	3.18 3.29
¶2.2 2.6 2.8		0.8 0.8 1.1	2.43 2.79 2.97	3.15 3.51 3.96	3.87 4.23 4.95	1.20 1.20 1.35	1.6 2.1 2.2	••	1.0 1.4 1.4		0.30 0.30 0.33	2.25 2.65 2.83	2.52 2.92 3.13	2.79 3.19 3.43

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

						Raies a	re quoie	a on a m	and a m	
					Domi	ESTIC SEF	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	kwh supplied block		Rate p	er kwh or		Net	monthly for	bill
	Flat-rat per or scho	■House he	Number of k	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
E' d	¢ No.	¢	No. 50	¢ 2.4	¢ 1.2	¢ 0.7	¢ 1.0	\$ 1.62	\$ 3.55	\$ 4.81
Finch	42	1.67	1			1 :				
Flesherton	37	1.67	50 60	3.0	1.0	0.7	1.0 1.3	1.35 2.09	3.01	4.27 6.77
Forest	46	**	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Forest Hill	40		60	2.5	1.3	0.0	1.4	1.85	4.37	6.89
2 0.000 4444.1111111111111111111111111111										
Fort William	34	1.67	60	2.0			0.8	1.37	2.81	4.25
Frankford	34		60	3.0			1.1	2.02	4.00	5.98
Galt	40		60	3.0			1.1	2.02	4.00	5.98
Georgetown	45		60	2.9			1.4	2.07	4.59	7.11
Glen Williams	45		60	3.6	• •	• •	1.6	2.52	5.40	8.28
†Geraldton	43	**.	60	4.4		• •	1.5	2.92	5.62	8.32
Glencoe	45		50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Goderich	52		50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
†Gogama			50	7.0	3.5		1.6	4.72	10.17	13.05
Grand Bend	52		60	4.4			1.5	2.92	5.62	8.32
Grand Valley	50	1.67	60	3.0			1.2	2.05	4.21	6.37
	50		60	2.0			1.4	0.61	F 12	7 65
Granton	50		60	3.9	1.0	0.7	1.4	2.61	5.13	7.65
Gravenhurst	40	• •	50 60	2.0	1.0	0.7	1.0	1.35 1.75	3.01	4.27 5.71
Grimsby	46 34	1.67	50	2.8	1.4	0.8	1.1	1.73	4.14	5.58
Guelph	41	1.07	60	2.8			1.1	1.91	3.89	5.87
11agers vinc										
†Haileybury	37		60	3.9			1.2	2.54	4.70	6.86
Hamilton	46		60	2.6			1.1	1.80	3.78	5.76
Hanover	38	1.67	60	2.2			1.0	1.55	3.35	5.15
Harriston	39	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Harrow	43		50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Hastings	52		45	4.2			1.0	2.20	4.00	5.80
Havelock	45		60	3.6			1.5	2.48	5.18	7.88
Hawkesbury	36		50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Hearst	60		50	5.4	2,7		1.6	3.64	8.01	10.89
Hensall			60	3.2			1.0	2.09	3.89	5.69
†Hepworth			50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Hespeler			60	3.2			1.1	2.12	4.10	6.08
Highgate		1.67	60	3.2			0.9	2.05	3.67	5.29
Holstein		1.67	60	3.0		• •	1.0	1.98	3.78	5.58
†Hornepayne	60		00	8.0		• •	2.0	5.04	8.64	12.24
†Hudson Townsite	45		60	4.4			1.7	2.99	6.05	9.11
Huntsville	1		60	2.4			1.2	1.73	3.89	6.05
†Ignace			60	8.0			2.0	5.04	8.64	12.24
Ingersoll			60	3.4			1.3	2.30	4.64	6.98
Iroquois	43		60	2.8			1.2	1.94	4.10	6.26

[†]Local system

For explanatory notes and water-heating schedules see pages 272 to 275.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1958

are subject to 10% prompt payment discount monthly charge

monini	y charge	, 												
	Сом	IMERCIA	L SERVI	CE					Pow	ER SEI	RVICE			
minir Ene kw	emand ra r 100 was 5.0 cents, num 50 ergy rate h for use kw of de	cents per of	f	monthly or use of of dema		rate per kw			rate pe or use of w of de	f		f	monthly or use of v of dem	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand rate per	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¶2.1 ¶1.6 2.5 ¶2.5 2.0	0.8 0.8 0.8	0.5 0.5 1.2 0.5 1.2	\$ 2.34 1.89 2.70 2.70 2.25 2.16	\$ 3.06 2.61 3.78 3.42 3.33	\$ 3.51 3.06 4.86 3.87 4.41 2.88	\$ 1.00 1.00 1.35 1.00 1.20	¢ 2.5 1.6	1.6 1.0 2.0	¢ 1.6 1.0	¢ 0.5 0.5 0.5	6 0.33 0.33 0.33 0.33 0.30	\$ 2.34 1.80 3.06 2.70 2.25	\$ 2.79 2.25 3.36 3.15 2.52	\$ 3.09 2.55 3.65 3.45 2.79
2.5 2.5 2.4 3.1 3.9		1.0 1.0 1.4 1.6 1.5	2.70 2.70 2.61 3.24 3.96	3.60 3.60 3.87 4.68 5.31	4.50 4.50 5.13 6.12 6.66	1.20 1.20 1.20 1.35 1.35	1.4 1.6 2.1 2.6 2.8		0.9 1.0 1.4 1.7 1.8	••	0.30 0.30 0.30 0.33 0.33	2.11 2.25 2.65 3.15 3.28	2.38 2.52 2.92 3.45 3.58	2.65 2.79 3.19 3.74 3.88
¶2.4 ¶2.9 5.8 3.9 2.5	0.8 0.8 0.8	0.5 0.5 0.5 1.3 1.2	2.61 3.06 5.67 3.96 2.70	3.33 3.78 6.39 5.13 3.78	3.78 4.23 6.84 6.30 4.86	1.00 1.00 1.00 1.35 1.20	3.1 2.1	1.9 2.4 5.1 	2.0	0.5 0.5 0.5 	0.33 0.33 0.33 0.33 0.30	2.61 3.06 5.49 3.51 2.65	3.06 3.51 5.94 3.81 2.92	3.36 3.81 6.24 4.10 3.19
3.4 ¶1.6 2.0 ¶2.0 2.3	0.8	1.3 0.5 1.0 0.5 0.9	3.51 1.89 2.25 2.25 2.52	4.68 2.61 3.15 2.97 3.33	5.85 3.06 4.05 3.42 4.14	1.35 1.00 1.20 1.00 1.20	2.6 1.7 1.7	1.1	1.7 1.2 1.2	0.5	0.33 0.33 0.30 0.33 0.30	3.15 1.89 2.38 2.07 2.38	3.45 2.34 2.65 2.52 2.65	3.74 2.64 2.92 2.82 2.92
3.4 d1.9 1.7 ¶2.8 ¶2.9	0.8	1.2 0.7 1.0 0.5 0.5	3.51 2.16 1.98 2.97 3.06	4.59 2.79 2.88 3.69 3.78	5.67 3.42 3.78 4.14 4.23	1.35 1.00 1.00 1.00 1.00	2.0 1.4 1.5	2.1 2.2	1.3 0.9 0.9 	0.5 0.5	0.33 0.40 0.30 0.33 0.33	2.70 1.93 1.98 2.79 2.88	3.00 2.29 2.25 3.24 3.33	3.29 2.65 2.52 3.54 3.63
3.6 3.1 ¶3.2 ¶5.4 2.7	0.8 0.8	1.0 1.3 0.5 0.5 0.9	3.69 3.24 3.33 5.31 2.88	4.59 4.41 4.05 6.03 3.69	5.49 5.58 4.50 6.48 4.50	1.35 1.35 1.00 1.00 1.20	2.5 2.8 2.1	1.7 4.1	1.6 1.8 1.4	0.5 0.5	0.33 0.33 0.33 0.33 0.30	3.06 3.28 2.43 4.59 2.65	3.36 3.58 2.88 5.04 2.92	3.65 3.88 3.18 5.34 3.19
¶3.2 2.6 2.8 2.5 7.5	0.8	0.5 0.9 0.7 0.8 2.0	3.33 2.79 2.97 2.70 7.20	4.05 3.60 3.60 3.42 9.00	4.50 4.41 4.23 4.14 10.80	1.00 1.20 1.35 1.35 1.35	1.6 2.6 3.5 4.9	2.4	1.0 1.7 2.3 3.3	0.5	0.33 0.33 0.33 0.33 0.33	3.06 2.25 3.15 3.82 4.90	3.51 2.55 3.45 4.12 5.20	3.81 2.84 3.74 4.42 5.50
3.9 2.2 7.5 2.8 2.3		1.5 1.1 2.0 0.8 1.0	3.96 2.43 7.20 2.97 2.52	5.31 3.42 9.00 3.69 3.42	6.66 4.41 10.80 4.41 4.32	1.35 1.20 1.35 1.20 1.35	3.8 1.6 4.9 1.9 2.0		2.5 1.0 3.3 1.3 1.3		0.33 0.30 0.33 0.30 0.33	4.05 2.25 4.90 2.52 2.70	4.35 2.52 5.20 2.79 3.00	4.64 2.79 5.50 3.06 3.29

Municipal Electrical RATES AND TYPICAL BILLS in effect

						Rates	are quote	ed on a 1		basis and ninimum
					Doм	ESTIC SI	ERVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	Number of kwh supplied in first block			per kwh		Ne	t monthly for	y bill
	Flat-rat per or sche	House he	Number of in first	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Jarvis †Jellicoe Townsite Kapuskasing †Kearns Townsite	45	¢	No. 60 60 50 b40	¢ 2.8 4.4 3.0 3.5	¢ 1.5	¢ 0.9	$\begin{array}{c c} & & & \\ & 0.9 \\ & 1.7 \\ & 1.2 \\ & \downarrow \\ 1.6 \\ 0.75 \end{array}$	\$ 1.84 2.99 2.02 2.63	\$ 3.46 6.05 4.45 4.90	\$ 5.08 9.11 6.07 6.25
Kemptville	45	1.67	55	3.2	1.2	0.7	1.0	1.99	3.79	5.59
†King Kirkland Townsite . Kingston	45 38		b40 60	3.5			‡\begin{cases} 1.6 \\ 0.75 \\ 0.9 \end{cases}	2.63	4.90	6.25
Kingsville	40 45		50 50	2.4 5.0	1.2	0.7	1.0	1.62 2.79	3.55 4.96	4.81
†Kirkland Lake (including Swastika). Kitchener Lakefield. Lambeth Lanark.	42 42	· · · · · · · · · · · · · · · · · · ·	60 55 60	Spec. 2.6 2.8 3.5			1.3 1.0 1.3	2.30 1.87 1.79 2.36	4.60 4.21 3.59 4.70	6.60 6.55 5.39 7.04
LancasterLarder Lake Twp •La SalleLatchford			60 60 60 50 50	2.5 2.3 3.5 3.8 3.0	 1.9 1.5	1.1	1.1 1.0 1.1 1.5 1.2	1.75 1.60 2.29 2.56 2.02	3.73 3.40 4.27 5.62 4.41	5.71 5.20 6.25 7.60 5.85
LindsayListowel	41 41 44	1.67	50 50 50	2.6 2.6 2.8	1.3 1.4	0.7 0.8 0.8	1.0	1.75 1.75 1.89	3.82 3.87	5.08
London Twp Long Branch	44 39 40	1.67	60 50 60	2.8 3.2 2.4	1.6		1.1 1.2 1.4 1.2	1.94 2.16 1.73	4.14 4.10 4.77 3.89	5.58 6.26 6.57 6.05
L'Orignal. Lucan. Lucknow. Lynden. Madoc.	40 48 45 45 47		50 60 55 60 60	4.2 3.4 2.7 3.2 2.9	2.1	1.2 	1.6 1.4 1.0 1.1 1.2	2.83 2.34 1.75 2.12 2.00	6.21 4.86 3.55 4.10 4.16	8.37 7.38 5.35 6.08 6.32
Magnetawan. Markdale. Markham. Marmora. Martintown	52 45 45 48 40	1.67	60 60 50 60	4.7 2.5 3.0 3.6 4.0	 1.6	1.0	2.0 1.0 1.3 1.0 1.2	3.26 1.71 2.07 2.30	6.86 3.51 4.68 4.10	10.46 5.31 6.48 5.90
Massey. †Matachewan Twp †Matheson	48 45 45		50 50 b40	5.0 4.5 3.5	2.5	1.4	$ \begin{array}{c c} 1.2 \\ 1.6 \\ 1.0 \\ 1.6 \\ 0.75 \end{array} $	2.59 3.37 2.47 2.63	4.75 7.38 4.27 4.90	6.91 9.90 6.07 6.25
†Mattawa Maxville	45 58		50 55	5.2 3.1	2.6	• •	1.6	3.51 1.94	7.74 3.74	10.62 5.53

[•]Annexed to Sandwich West Twp. effective January 1959.

For explanatory notes and water-heating schedules see pages 272 to 275.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1958

are subject to 10% prompt payment discount monthly charge

monini	y charge													
	Con	MMERCIA	AL SERV	ICE					Pov	VER SE	RVICE			
minii Ene kw	Demand rate per 100 watts 5.0 cents, minimum 50 cents Energy rate per kwh for use of each kw of demand E. E				f	Demand rate per kw		f	rate por use o	f		f	monthly for use of w of dem	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand	First 50 hours	First . 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢ 2.3 3.9 ¶2.7 3.5	0.8	0.6 1.5 0.5 1.0	\$ 2.52 3.96 2.88 3.60	\$ 3.06 5.31 3.60 4.50	\$ 3.60 6.66 4.05 5.40	\$ 1.20 1.35 1.00 1.35	2.1 3.8 2.8	¢ 2.0	¢ 1.4 2.5 1.8	0.5	¢ 0.30 0.33 0.33 0.33	\$ 2.65 4.05 2.70 3.28	\$ 2.92 4.35 3.15 3.58	\$ 3.19 4.64 3.45 3.88
2.7		1.0	2.88	3.78	4.68	1.35	2.0		1.3	٠,	0.33	2.70	3.00	3.29
¶2.4 3.5	0.8	0.5	2.61 3.60	3.33 4.50	3.78 5.40	1.00 1.35	2.8	1.9	1.8	0.5	0.33	2.61 3.28	3.06 3.58	3.36 3.88
1.5 ¶2.2 4.5	0.8	0.9 0.5 1.0	1.80 2.43 4.50	2.61 3.15 5.40	3.42 3.60 6.30	1.20 1.00 1.35	1.4 4.1	1.7	0.9 2.7	0.5	0.30 0.33 0.33	2.11 2.43 4.27	2.38 2.88 4.57	2.65 3.18 4.87
Spec. 2.3 2.4 3.1 2.0		1.0 0.8 1.1 1.0	3.50 2.52 2.61 3.24 2.25	4.50 3.42 3.33 4.23 3.15	5.50 4.32 4.05 5.22 4.05	1.20 1.20 1.35 1.35	Spec. 2.1 1.7 4.1 2.2		1.4 1.2 2.7 1.4		0.30 0.30 0.33 0.33	3.50 2.65 2.38 4.27 2.83	4.50 2.92 2.65 4.57 3.13	5.50 3.19 2.92 4.87 3.43
1.8 3.0 ¶3.3 ¶2.5 ¶2.3	0.8 0.8 0.8	1.0 1.0 0.5 0.5 0.5	2.07 3.15 3.42 2.70 2.52	2.97 4.05 4.14 3.42 3.24	3.87 4.95 4.59 3.87 3.69	1.35 1.35 1.00 1.00 1.00	2.0 3.1	2.3 1.7 1.8	1.3 2.0	0.5 0.5 0.5	0.33 0.33 0.33 0.33	2.70 3.51 2.97 2.43 2.52	3.00 3.81 3.42 2.88 2.97	3.29 4.10 3.72 3.18 3.27
¶2.2 ¶2.4 2.2 ¶2.7 ¶1.9	0.8 0.8 0.8	0.5 0.5 0.6 0.5 1.1	2.43 2.61 2.43 2.88 2.16	3.15 3.33 2.97 3.60 3.15	3.60 3.78 3.51 4.05 4.14	1.00 1.00 1.20 1.00 1.20	1.4 1.7	1.5 1.8 1.9	0.9 1.2	0.5 0.5 0.5	0.33 0.33 0.30 0.33 -0.30	2.25 2.52 2.11 2.61 2.38	2.70 2.97 2.38 3.06 2.65	3.00 3.27 2.65 3.36 2.92
¶2.6 3.0 2.2 2.7 2.5	0.8	0.5 1.1 0.8 1.0 1.1	2.79 3.15 2.43 2.88 2.70	3.51 4.14 3.15 3.78 3.69	3.96 5.13 3.87 4.68 4.68	1.00 1.20 1.35 1.35 1.35	2.1 2.8 2.0 2.8	1.8	1.4 1.8 1.3 1.8	0.5	0.33 0.30 0.33 0.33	2.52 2.65 3.28 2.70 3.28	2.97 2.92 3.58 3.00 3.58	3.27 3.19 3.88 3.29 3.88
4.2 2.0 2.8 3.2 3.5	0.8	2.0 1.0 0.5 0.9 1.2	4.23 2.25 2.97 3.33 3.60	6.03 3.15 3.69 4.14 4.68	7.83 4.05 4.14 4.95 5.76	1.35 1.20 1.00 1.35 1.35	3.5 1.9 2.3 2.8	2.1	2.3 1.3 1.5 1.8	0.5	0.33 0.30 0.33 0.33 0.33	3.82 2.52 2.79 2.92 3.28	4.12 2.79 3.24 3.22 3.58	4.42 3.06 3.54 3.52 3.88
¶4.4 3.5 3.5	0.8	0.5 1.0 1.0	4.41 3.60 3.60	5.13 4.50 4.50	5.58 5.40 5.40	1.00 1.35 1.35	2.8 2.8	3.1	1.8 1.8	0.5	0.33 0.33 0.33	3.69 3.28 3.28	4.14 3.58 3.58	4.44 3.88 3.88
5.2 2.8	0.8	0.5	5.13	5.85 3.87	6.30 4.77	1.00 1.35	3.5	3.2	2.3	0.5	0.33	3.78 3.82	4.23 4.12	4.53 4.42

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a m	inimum
					Dome	STIC SEI	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	ting per kwh	Number of kwh supplied in first block		Rate pe	er kwh r		Net	monthly for	bill
	Flat-rate per or sche	■House heating per	Number of in first	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	é	¢	¢	¢	\$	\$	\$
McGarry	46		60	3.5			1.1	2.29	4.27	6.25
Meaford	46	1.67	60	2.6			1.0	1.76	3.56	5.36
Merlin	44		60	3.1			1.0	2.03	3.83	5.63 6.77
Merrickville	40 43		60 60	3.0			1.3	2.20	4.54	6.88
Werntton	43		00	0.2			1.0	2.20	110 1	
Midland	39		50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Mildmay	40	1.67	60	2.5			1.0	1.71	3.51	5.31
Millbrook	48		60	4.6			1.0 1.4	2.84	4.64 4.77	6.44
Milton	48	1.67	50 60	3.2	1.6	1.0	1.4	2.10	4.77	6.98
Milverton	40		00	3.4			1.0	2.50	1.01	0.70
Mimico	37	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Mitchell	40	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Moorefield			50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Morrisburg	43		60	3.0			1.0	1.98	3.78	5.58
Mount Brydges	41	• •	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Mount Forest	39	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Napanee	39		60	2.8			1.1	1.91	3.89	5.87
Neustadt	37	1.67	50	2.0	1.0 .	0.7	1.0	1.35	3.01	4.27
Newboro	40		60	4.0			1.4	2.66	5.18	7.70
Newburgh	40		60	4.3			1.2	2.75	4.91	7.07
Newbury	50		60	4.0			1.0	2.52	4.32	6.12
Newcastle			60	3.0			0.9	1.94	3.56	5.18
New Hamburg			60	3.2			1.3	2.20	4.54	6.88
†New Liskeard	42		50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Newmarket	40		60	2.5			1.0	1.71	3.51	5.31
New Toronto	42	1.67	60	2-6			1.2	1.84	4.00	6.16
New Toronto Niagara		1.07	60	3.0			1.4	2.12	4.64	7.16
Niagara Falls		1.67	50	3.0	1.4		1.0	1.98	4.32	6.12
Nipigon Twp			60	2.8			1.0	1.87	3.67	5.47
North Bay	42		60	2.5			1.2	1.78	3.94	6.10
Month Vont Ton	25	1.67	60	2.7			1.3	1.93	4.27	6.61
North York Twp Norwich		1.67	60	3.4			1.3	2.27	4.43	6.59
Norwood			50	3.9			1.1	2.25	4.23	6.21
Oakville			60	3.0			1.4	2.12	4.64	7.16
Oil Springs		1	60	3.0			1.0	1.98	3.78	5.58
0	4.4		60	2.2			1.0	2.14	3.94	5.74
Omemee		1.67	60 50	3.3	1.5	0.9	1.0	2.14	4.45	6.07
Orillia		1.67	60	2.3	1.5		0.9	1.57	3.19	4.81
Orono			60	3.5			1.2	2.32	4.48	6.64
Oshawa			50	2.2	1.1	0.7	1.0	1.48	3.28	4.54

[†]Local system

For explanatory notes and water-heating schedules see pages 272 to 275.

Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1958

are subject to 10% prompt payment discount monthly charge

	Con	MMERCIA	AL SERV	ICE					Pow	ER SE	RVICE			
minin Ene	emand ra r 100 wa 5.0 cents num 50 ergy rate h for use kw of de	cents per	f-	monthly or use of y of dema		rate per kw		fe	rate pe or use o w of de	f		f	monthly or use of v of dem	
First. 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand rate	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
\$ 3.0 2.2 2.6 2.5 2.7	¢	6 1.0 0.8 0.7 1.2 1.1	\$ 3.15 2.43 2.79 2.70 2.88	\$ 4.05 3.15 3.42 3.78 3.87	\$ 4.95 3.87 4.05 4.86 4.86	\$ 1.35 1.20 1.35 1.20	\$\delta \text{\$\frac{\psi}{2}\$} 3.1 \\ 2.1 \\ 2.8 \\ 1.4 \\ 1.9 \end{array}	¢	¢ 2.0 1.4 1.8 0.9 1.3	¢	¢ 0.33 0.30 0.33 0.30 0.30	\$ 3.51 2.65 3.28 2.11 2.52	\$ 3.81 2.92 3.58 2.38 2.79	\$ 4.10 3.19 3.88 2.65 3.06
¶1.7 2.0 4.2 ¶2.6 3.0	0.8	0.5 0.9 1.0 0.5 1.4	1.98 2.25 4.23 2.79 3.15	2.70 3.06 5.13 3.51 4.41	3.15 3.87 6.03 3.96 5.67	1.00 1.20 1.35 1.00 1.35	1.9 3.5 2.0	1.0	1.3 2.3 1.3	0.5 0.5 	0.33 0.30 0.33 0.33 0.33	1.80 2.52 3.82 2.79 2.70	2.25 2.79 4.12 3.24 3.00	2.55 3.06 4.42 3.54 3.29
¶2.2 ¶2.9 ¶2.4 2.7 ¶2.6	0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.8 0.5	2.43 3.06 2.61 2.88 2.79	3.15 3.78 3.33 3.60 3.51	3.60 4.23 3.78 4.32 3.96	1.00 1.00 1.00 1.20 1.00	1.9	1.5 2.1 1.9 	1.3	0.5 0.5 0.5 	0.33 0.33 0.33 0.30 0.33	2.25 2.79 2.61 2.52 2.61	2.70 3.24 3.06 2.79 3.06	3.00 3.54 3.36 3.06 3.36
¶2.3 2.5 ¶1.6 3.5 3.8	0.8	0.5 1.0 0.5 1.2 1.2	2.52 2.70 1.89 3.60 3.87	3.24 3.60 2.61 4.68 4.95	3.69 4.50 3.06 5.76 6.03	1.00 1.20 1.00 1.35 1.35	1.6 2.2 2.5	1.8	1.0 1.4 1.6	0.5 0.5 	0.33 0.30 0.33 0.33 0.33	2.52 2.25 1.80 2.83 3.06	2.97 2.52 2.25 3.13 3.36	3.27 2.79 2.55 3.43 3.65
3.5 2.5 2.7 ¶2.9 2.2	0.8	0.9 0.8 1.2 0.5 1.0	3.60 2.70 2.88 3.06 2.43	4.41 3.42 3.96 3.78 3.33	5.22 4.14 5.04 4.23 4.23	1.35 1.35 1.35 1.00 1.20	3.5 2.0 2.2 2.1	2.4	2.3 1.3 1.4 	0.5	0.33 0.33 0.33 0.33 0.30	3.82 2.70 2.83 3.06 2.65	4.12 3.00 3.13 3.51 2.92	4.42 3.29 3.43 3.81 3.19
¶2.1 2.5 ¶2.2 2.4 2.0	0.8	0.5 1.2 0.5 0.8 0.9	2.34 2.70 2.43 2.61 2.25	3.06 3.78 3.15 3.33 3.06	3.51 4.86 3.60 4.05 3.87	1.00 1.20 1.00 1.20 1.20	2.1 1.6 2.1	1.4	1.4 1.0 1.4	0.5 0.5 	0.33 0.30 0.33 0.30 0.30	2.16 2.65 2.25 2.25 2.65	2.61 2.92 2.70 2.52 2.92	2.91 3.19 3.00 2.79 3.19
2.2 3.0 3.4 2.5 2.6		1.1 1.0 0.9 1,3 1.0	2.43 3.15 3.51 2.70 2.79	3.42 4.05 4.32 3.87 3.69	4.41 4.95 5.13 5.04 4.59	1.20 1.35 1.35 1.20 1.35	1.7 2.5 2.2 1.7 2.8		1.2 1.6 1.4 1.2 1.8		0.30 0.33 0.33 0.30 0.33	2.38 3.06 2.83 2.38 3.28	2.65 3.36 3.13 2.65 3.58	2.92 3.65 3.43 2.92 3.88
2.8 ¶2.3 1.8 3.0 ¶1.8	0.8	0.8 0.5 0.8 1.1 0.5	2.97 2.52 2.07 3.15 2.07	3.69 3.24 2.79 4.14 2.79	4.41 3.69 3.51 5.13 3.24	1.35 1.00 1.00 1.35 1.00	2.8 1.4 2.8	1.4	1.8 0.9 1.8	0.5	0.33 0.33 0.30 0.33 0.33	3.28 2.16 1.93 3.28 1.98	3.58 2.61 2.20 3.58 2.43	3.88 2.91 2.47 3.88 2.73

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

						Ruies	ire quoie	a on a n		inimum
					Domi	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block		Rate p	er kwh or		. Ne	t monthly for	bill
	Flat-rate per 1	House hea	Number of in fire	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No	, ¢	No.	ęć	¢	¢	¢	\$	\$	\$
Ottawa (including East- view and Rockcliffe			_∫60	2.0						
Park)	32	1	a 60	* 1.0			*0.5	1.74	3.02	3.92
Otterville	46		6.0	3.0			1.0	1.98	3.78	5.58
Owen Sound	38	1.67	60	2.4			1.1	1.69	3.67	5.65
Paisley	45	1.67	60	3.5			1.0	2.25	4.05	5.85
Palmerston	44		60	2.6	• •	• •	1.0	1.76	3.56	5.36
Paris	42		60	2.8			1.3	1.98	4.32	6.66
Parkhill	44		50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Parry Sound	42		60	2.8			1.2	1.94	4.10	6.26
Penetanguishene	45		60	2.5			1.1	1.75	3.73	5.71
Perth	37		55	2.8			1.0	1.79	3.59	5.39
Peterborough	40		60	2.6			1.2	1 07	4.24	
Petrolia	50		60	3.6			1.3	1.87 2.38	4.21	6.55
Pickering	38		50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
†Pickle Lake Landing										
Townsite	45		60	4.4			1.7	2.99	6.05	9.11
Picton	41		50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Plattsville	42		50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Point Edward	38		50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Port Arthur	34		60	2.0			0.8	1.37	2.81	4.25
Port Burwell	47		50	4.4	2.2	1.3	1.6	2.97	6.52	8.86
†Port Carling	41		50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Port Colborne	41		60	2.8			1.0	1.04	4.10	6.06
Port Credit	38	1.67	60	2.7	• •		1.2	1.94	4.10	6.26
Port Dalhousie	40		50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Port Dover	45		60	2.4			1.2	1.73	3.89	6.05
Port Elgin	45	1.80	60	3.5			1.3	2.36	4.70	7.04
Port Hope	45		50	2.2	1.6	1.0	1.4	2.46	4 17.17	6 47
Port McNicoll	48		60	3.2	1.6	1.0	1.4 1.0	2.16	4.77 3.94	6.57 5.74
Port Perry	41		50	2.6	1.3	0.7	1.0	1.75	3.94	5.74
Port Rowan	50		60	3.2	, ,		1.1	2.12	4.10	6.08
Port Stanley	43		50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
†Powassan	39		50	26	1.0	4.0		2.42		
Prescott	37		50	3.6	1.8 1.1	1.0 0.7	1.4	2.43 1.48	3.28	7.11
Preston	37	1	60	3.3		1.	1.3	2.25	4.59	6.93
Priceville	47		50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Princeton	48		60	3.0			1.0	1.98	3.78	5.58
Queenston	40		60	0.0				4.00	4.00	
Rainy River	57	1 ::	50	2.8 6.8	3.4		1.3	1,98	4.32 9.90	6.66
†Red Lake Townsite	45		60	4.4	3.4		1.6	4.59 2.99	6.05	12.78 9.11
Red Rock	32		60	2.6			1.1	1.80	3.78	5.76
Renfrew	40	1	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34

[†]Local system

For explanatory notes and water-heating schedules see pages 272 to 275.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1958

are subject to 10% prompt payment discount monthly charge

	Co	MMERCI.	AL SERV	ICE					Pov	VER SE	RVICE			
mini En kv	emand r. r. 100 was 5.0 cents mum 50 ergv rate who for use kw of de	cents per e per	f	monthly or use of v of dem		Demand rate per kw		f	y rate p or use o	of		f	monthly for use o w of dem	f
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	20) hours	300 hours	Demand r	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢	¢ ·	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
2.0 2.5 ¶2.0 3.0 2.2	0.8	0.5 0.8 0.5 1.9 0.8	2.25 2.70 2.25 3.15 2.43	2.97 3.42 2.97 4.05 3.15	3.42 4.14 3.42 4.95 3.87	1.00 1.35 1.00 1.35 1.20	2.0 1.5 2.6 1.6	1.4	1.3 1.1 1.7 1.0	0.5	0.33 0.33 0.30 0.33 0.30	2.16 2.70 2.07 3.15 2.25	2.61 3.00 2.34 3.45 2.52	2.91 3.29 2.61 3.74 2.79
2.3 ¶2.9 2.3 2.1 2.0	0.8	0.8 0.5 1.2 1.0 0.6	2.52 3.06 2.52 2.34 2.25	3.24 3.78 3.60 3.24 2.79	3.96 4.23 4.68 4.14 3.33	1.00 1.00 1.20 1.20 1.00	1.5 1.6 1.6 1.3	2.2	1.1 1.0 1.0 0.8	0.5	0.30 0.33 0.30 0.30 0.25	2.07 2.88 2.25 2.25 1.84	2.34 3.33 2.52 2.52 2.07	2.61 3.63 2.79 2.79 2.29
2.1 3.1 ¶2.2	0.8 c	1.2 1.0 0.5	2.34 3.24 2.43	3.42 4.14 3.15	4.50 5.94 3.60	1.20 1.35 1.00	1.4 3.5	1.6	0.9 2.3	 0.5	0.30 0.33 0.33	2.11 3.82 2.34	2.38 4.12 2.79	2.65 4.42 3.09
3.9 2.1	0.8	1.5 0.5	3.96 2.34	5.31 3.06	6.66 3.51	1.35 1.00	3.8	1.6	2.5	0.5	0.33 0.33	4.05 2.34	4.35 2.79	4.64 3.09
¶2.6 ¶2.1 1.9 ¶3.4 4.2	0.8 0.8 0.8 0.8	0.5 0.5 0.4 0.5 0.5	2.79 2.34 2.16 3.51 4.23	3.51 3.06 2.52 4.23 4.95	3.96 3.51 2.88 4.68 5.40	1.00 1.00 1.00 1.00 1.00	1.4 	2.0 1.7 2.5 2.7	0.9	0.5 0.5 0.5 0.5	0.33 0.33 0.25 0.33 0.33	2.70 2.43 1.93 3.15 3.33	3.15 2.88 2.16 3.60 3.78	3.45 3.18 2.38 3.90 4.08
2.5 2.2 ¶3.9 2.0 2.8	0.8 	1.1 1.2 0.5 1.0	2.70 2.43 3.15 2.25 2.97	3.69 3.51 3.87 3.15 3.87	4.68 4.59 4.32 4.05 4.77	1.20 1.35 1.00 1.20 1.35	1.9 2.0 1.7 2.5	2.6	1.3 1.3 1.2 1.6	0.5	0.30 0.33 0.33 0.30 0.33	2.52 2.70 3.24 2.38 3.96	2.79 3.00 3.69 2.65 3.36	3.06 3.29 3.99 2.92 3.65
¶2.7 2.8 ¶1.9 2.7 ¶2.5	0.8 0.8 	0.5 0.8 0.5 0.9	2.88 2.97 2.16 2.88 2.70	3.59 3.69 2.88 3.69 3.42	4.95 4.41 3.33 4.50 3.87	1.90 1.35 1.00 1.35 1.00	2.2	2.1 1.4 2.0	1.4	0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.79 2.83 2.16 3.60 2.70	3.24 3.13 2.61 3.90 3.15	3.54 3.43 2.91 4.19 3.45
¶3.4 ¶2.1 2.8 3.8 2.7	0.8 0.8 0.8	0.5 0.5 0.9 0.5 0.8	3.51 2.34 2.97 3.87 2.88	4.23 3.06 3.78 4.59 3.60	4.68 3.51 4.59 5.04 4.32	1.00 1.00 1.20 1.00 1.20	 1.9 2.1	2.7 1.3 2.9	1.3	0.5 0.5 0.5	0.33 0.33 0.30 0.33 0.30	3.33 2.97 2.52 3.51 2.65	3.78 2.52 2.79 3.96 2.92	4.08 2.82 3.06 4.26 3.19
2.4 6.0 3.9 2.1 2.1	0.8	1.2 0.5 1.5 1.0 0.5	2.61 5.85 3.96 2.34 2.34	3.69 6.57 5.31 3.24 3.06	4.77 7.02 6.66 4.14 3.51	1.20 1.00 1.35 1.20 1.00	2.1 3.8 1.6	5.0	1.4 2.5 1.0	0.8	0.30 0.50 0.33 0.30 0.33	2.65 5.40 4.05 2.25 2.25	2.92 6.12 4.35 2.52 2.70	3.19 6.57 4.64 2.79 3.00

Municipal Electrical RATES AND TYPICAL BILLS

in effect

Rates are quoted on a monthly basis and and a minimum

									and a m	inimum
					Dome	ESTIC SEI	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	ating per kwh	of kwh supplied first block		Rate p	er kwh or		Net	monthly for	bill
	Flat-rat per or sche	House heating	Number of in fire	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	é No.	é	No.	¢	¢	¢	é	\$	\$	\$
Richmond	54		40	4.3			1.2	2.20	4.36	6.52
Richmond Hill	45		50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Ridgetown	51		60	2.9			1.1	1.96	3.94	5.92
Ripley	43	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Riverside	41	1.67	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
~			F0	2.6		0.0	1.1	1.75	3.87	5.31
Rockland	33		50 60	2.6	1.3	0.8	1.3	2.25	4.59	6.93
Rockwood	48		60	2.5			1.0	1.71	3.51	5,31
Rodney	52		60	3.5			1.6	2.47	5.35	8.23
Rosseau	43 36		50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Russell	30		30	2.1	1.2	0.,	1.0	1102	0.00	
St. Catharines	42		60	2.7			1.5	2.00	4.70	7.40
St. Clair Beach	42	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
St. George	44		60	2.5			0.9	1.67	3.29	4.91
St. Jacobs	42		60	3.0			1.1	2.02	4.00	5.98
St. Mary's	43		50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
						,	4.0	2.16	4.32	6.48
St. Thomas	43	1.67	60 50	3.2 4.4	2.2	1.2	1.2 1.6	2.16 2.97	6.48	8.64
Sandwich East Twp	43	1.78	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Sandwich West Twp	43		50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Sarnia Scarborough Twp	43		60	2.7			1.3	1.93	4.27	6.61
bearborough 1 wp	10	1		211			• • •			
Schreiber Twp	31		50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Seaforth	36		50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Shelburne	45	1.67	60	3.0			1.2	2.05	4.21	6.37
Simcoe	42		60	2.5			1.0	1.71	3.51	5.31
Sioux Lookout	51		60	4.0			1.5	2.70	5.40	8.10
							4.0	4.77	2 56	F 26
Smith's Falls	38		60	2.6			1.0	1.76 2.16	3.56 4.32	5.36 6.48
Smithville	45		60 50	3.2			1.2 1.1	1.93	3.91	5.89
Southampton	48				• •	• • •	1.1	2.30	4.60	6.60
†South Porcupine Townsite	49		60	Spec.			0.9	2.16	3.78	5.40
Springfield	17		30	3.7			3.7	2,10	0.70	0,10
Stamford Twp	40	1.67	60	3.2			1.4	2.23	4.75	7.27
Stayner	41	1.67	60	3.0			1.2	2.05	4.21	6.37
Stirling	40		60	2.7			1.3	1.93	4.27	6.61
Stoney Creek	41		50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Stouffville	45	1.67	60	2.6			1.1	1.80	3.78	5.76
Church and	40	1.67	60	2.0			1.2	2.00	4.16	6.32
Stratford	42	1.67	60	2.9			1.2 0.9	2.00	3.62	5.24
Strathroy	1		60	3.1			1.3	2.00	4.37	6.71
Streetsville Sturgeon Falls			50	3.2	1.6	1.0	1.3	2.03	4.77	6.57
Sudbury		1 ::	60	2.6		1.0	1.2	1.84	4.00	6.16
Oddbury	37		. 30	2.0			1.2	1.01	1 27770	,

†Local system

For explanatory notes and water-heating schedules see pages 272 to 275.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1958

are subject to 10% prompt payment discount monthly charge

moniniy charge													
Con	MERCIA	AL SERVI	CE					Pow	ER SEI	RVICE			
Demand raper 100 wa 5.0 cents minimum 50 Energy rate kwh for use each kw of de	cents per	f	monthly or use of of dema		rate per kw		fc	rate pe or use o w of de	f .		fe	monthly or use of of dema	
First 100 hours Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand rate per	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢ ¢ 4.0 2.9 0.8 2.4 ¶2.7 0.8 ¶2.4 0.8	1.0 0.5 0.9 0.5 0.5	\$ 4.05 3.06 2.61 2.88 2.61	\$ 4.95 3.78 3.42 3.60 3.33	\$ 5.85 4.23 4.23 4.05 3.78	\$ 1.35 1.00 1.35 1.00 1.00	¢ 3.5 2.2	¢ 2.3 2.0 1.7	¢ 2.3 1.4	0.5 0.5 0.5 0.5	¢ 0.33 0.33 0.33 0.33 0.33	\$ 3.82 2.97 2.83 2.70 2.43	\$ 4.12 3.42 3.13 3.15 2.88	\$ 4.42 3.72 3.43 3.45 3.18
¶2.1 0.8 2.8 2.2 3.0 ¶2.0 0.8	0.5 1.2 0.8 1.6 0.5	2.34 2.97 2.43 3.15 2.25	3.06 4.05 3.15 4.59 2.97	3.51 5.13 3.87 6.03 3.42	1.00 1.35 1.35 1.35 1.00	2.8 2.2 2.6	1.3	1.8 1.4 1.7	0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.07 3.28 2.83 3.15 2.25	2.52 3.58 3.13 3.45 2.70	2.82 3.88 3.43 3.74 3.00
d2.3 ¶3.0 0.8 2.0 2.5 ¶2.5 0.8	1.1 0.5 0.6 1.0 0.5	2.52 3.15 2.25 2.70 2.70	3.51 3.87 2.79 3.60 3.42	4.50 4.32 3.33 4.50 3.87	1.20 1.00 1.20 1.20 1.00	1.9 1.7 1.7	2.3	1.3 1.2 1.2	0.5	0.30 0.33 0.30 0.30 0.33	2.52 2.97 2.38 2.38 2.25	2.79 3.42 2.65 2.65 2.70	3.06 3.72 2.92 2.92 3.00
2.3 ¶3.9 0.8 ¶3.9 0.8 ¶2.4 0.8 2.2	0.6 0.5 0.5 0.5 1.1	2.52 3.96 3.96 2.61 2.43	3.06 4.68 4.68 3.33 3.42	3.60 5.13 5.13 3.78 4.41	1.20 1.00 1.00 1.00 1.20	1.6	3.4 3.4 1.7	1.0	0.5 0.5 0.5	0.30 0.33 0.33 0.33 0.30	2.25 3.96 3.96 2.43 2.65	2.52 4.41 4.41 2.88 2.92	2.79 4.71 4.71 3.18 3.19
¶1.7 0.8 ¶2.0 0.8 2.5 2.0 3.5	0.5 0.5 1.2 0.8 2.0	1.98 2.25 2.70 2.25 3.60	2.70 2.97 3.78 2.97 5.40	3.15 3.42 4.86 3.69 7.20	1.00 1.00 1.20 1.20 1.35	1.7 1.7 2.8	1.2	1.2 1.2 1.8	0.5 0.5 	0.33 0.33 0.30 0.30 0.33	1.98 2.25 2.38 2.38 3.28	2.43 2.70 2.65 2.65 3.58	2.73 3.00 2.92 2.92 3.88
2.0 2.8 2.9 Spec 2.9	0.7 1.1 1.1 0.8	2.25 2.97 3.06 3.50 3.06	2.88 3.96 4.05 4.50 3.78	3.51 4.95 5.04 5.50 4.50	1.00 1.35 1.35 1.35	1.5 2.5 2.2 Spec. 2.8		1.1 1.6 1.4 		0.25 0.33 0.33 0.33	2.07 3.06 2.83 3.50 3.28	2.29 3.36 3.13 4.50 3.58	2.52 3.65 3.43 5.50 3.88
2.9 2.5 2.2 ¶2.4 0.8 2.1	1.3 1.2 1.3 0.5	3.06 2.70 2.43 2.61 2.34	4.23 3.78 3.60 3.33 3.33	5.40 4.86 4.77 3.78 4.32	1.20 1.20 1.20 1.00 1.35	1.9 1.9 1.7 2.0	1.7	1.3 1.3 1.2 	0.5	0.30 0.30 0.30 0.33 0.33	2.52 2.52 2.38 2.43 2.70	2.79 2.79 2.55 2.88 3.00	3.06 3.06 2.92 3.18 3.29
2.4 2.5 2.4 ¶2.6 0.8 2.4	0.7 0.6 1.3 0.5 1.2	2.61 2.70 2.61 2.79 2.61	3.24 3.24 3.78 3.51 3.69	3.87 3.78 4.95 3.96 4.77	1.20 1.20 1.20 1.00 1.35	1.7 1.7 2.1 2.0	2.0	1.2 1.2 1.4 1.3	0.5	0.30 0.30 0.30 0.33 0.33	2.38 2.38 2.65 2.70 2.70	2.65 2.65 2.92 3.15 3.00	2.92 2.92 3.19 3.45 3.29

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

							1			ninimum
					Dom	ESTIC SE	RVICE			
Municipality	Flate-rate water-heating per 100 watts or schedule number	House heating per kwh	Number of kwh supplied in first block			oer kwh or		Ne	t monthly for	bill
	Flate-ra per or sche	House he	Number of in fir	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Sunderland	¢ No. 45 52 48 41 44	¢ 1.67	No. 60 60 60 50 50	\$ 3.5 4.2 2.7 2.4 2.6	, , , , , , , , , , , , , , , , , , ,	0.7	f.0 1.6 1.0 1.0 1.1	\$ 2.25 2.84 1.82 1.62 1.75	\$ 4.05 5.72 3.62 3.55 3.87	\$ 5.85 8.60 5.42 4.81 5.31
Tavistock. Tecumseh. Teeswater Terrace Bay. Thamesford.	44 41 42 35 49	1.67	60 50 50 50 50	2.7 3.2 2.6 2.0 3.6	1.6 1.3 1.0	1.0 0.8 0.7	1.4 1.4 1.1 1.0 1.5	1.96 2.16 1.75 1.35 2.48	4.48 4.77 3.87 3.01 5.18	7.00 6.57 5.31 4.27 7.88
Thamesville. Thedford. Thessalon. Thornbury. Thorndale.	45 56 49 48 42		50 60 50 60 50	3.0 3.6 4.0 3.5 3.6	1.5 2.0 1.8	0.9 1.2 	1.2 1.0 1.6 1.3 1.4	2.02 2.30 2.70 2.36 2.43	4.45 4.10 5.94 4.70 5.31	6.07 5.90 8.10 7.04 7.11
†Thornloe. Thornton. Thorold. Tilbury. Tillsonburg.	62 40 51 43		60 60 50 60	Spec. 3.8 2.7 3.0 3.2	1.5	0.9	1.0 1.4 1.2 1.2	2.30 2.41 1.96 2.02 2.16	4.60 4.21 4.48 4.45 4.32	6.60 6.01 7.00 6.07 6.48
†Timmins (including Schumacher) Toronto (including Leaside) Toronto Twp Tottenham Trafalgar Twp	42 ** 37 44 43	2.10 1.67 1.67 1.89	60 50 50 50	Spec. 2.0 3.0 3.5 3.8	1.5	 0.8 	1.4 1.2 1.0 1.5	2.30 1.58 2.02 2.02 2.56	4.60 4.10 4.41 3.82 5.62	6.60 6.62 5.85 5.62 7.60
Trenton. Tweed. Uxbridge. Vankleek Hill. Victoria Harbour.	33 33 41 41 49	• • • • • • • • • • • • • • • • • • • •	60 50 50 60 60	1.8 1.8 2.6 4.5 3.2	0.9 1.3	0.7 0.7	0.8 1.0 1.0 1.5 1.3	1.26 1.21 1.75 2.97 2.20	2.70 2.74 3.82 5.67 4.54	4.14 4.00 5.08 8.37 6.88
Walkerton. Wallaceburg. Wardsville. Warkworth. Wasaga Beach.	38 41 52 52 42	1.67	50 50 60 50 50	2.6 2.6 3.6 3.5 3.6	1.3	0.8 0.7 1.1	1.1 1.0 0.9 1.2 1.5	1.75 1.75 2.27 2.12 2.43	3.87 3.82 3.89 4.28 5.35	5.31 5.98 5.51 6.44 7.33
Waterdown. Waterford. Waterloo. Watford. Waubaushene.	42 42 39 46 45	1.67	60 50 60 60	2.6 3.2 2.6 3.1 3.2	1.6	0.9	1.2 1.3 1.1 1.1 1.2	1.84 2.16 1.80 2.07 2.16	4.00 4.72 3.78 4.05 4.32	6.16 6.34 5.76 6.03 6.48

[†]Local system

For explanatory notes and water-heating schedules see pages 272 to 275.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1958

are subject to 10% prompt payment discount monthly charge

montni	y cnarge	2												
	Con	MERCIA	L SERV	ICE					Pow	ER SEF	RVICE			
per 5 minin Ene kwi	emand ra 100 wa 5.0 cents num 50 rgy rate h for use kw of de	cents per	f	monthly or use of v of dem		Demand rate per kw		fe	rate pe or use o w of de	f		fo	monthly or use of of dema	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
\$ 3.0 3.7 2.4 ¶1.9 ¶2.4	¢ 0.8 0.8	0.8 1.6 0.7 0.5 0.5	\$ 3.15 3.78 2.61 2.16 2.61	\$ 3.87 5.22 3.24 2.88 3.33	\$ 4.59 6.66 3.87 3.33 3.78	\$ 1.35 1.35 1.35 1.00 1.00	¢ 3.2 3.4 2.0	¢ 1.3 1.9	¢ 2.1 2.2 1.3	¢ 0.5 0.5	0.33 0.33 0.33 0.33 0.33	\$ 3.60 3.73 2.70 2.07 2.61	\$ 3.90 4.03 3.00 2.52 3.06	\$ 4.19 4.33 3.29 2.82 3.36
2.3 ¶2.7 ¶2.3 ¶1.8 3.1	0.8 0.8 0.8	1.4 0.5 0.5 0.5 1.4	2.52 2.88 2.52 2.07 3.24	3.78 3.60 3.24 2.79 4.50	5.04 4.05 3.69 3.24 5.76	1.35 1.00 1.00 1.00 1.35	2.2 2.9	1.9 1.8 1.3	1.4	0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.83 2.61 2.52 2.07 3.37	3.13 3.06 2.97 2.52 3.67	3.43 3.36 3.27 2.82 3.97
¶2.6 3.2 4.0 3.1 ¶3.2	0.8 0.8 0.8	0.5 0.7 0.5 1.3 0.5	2.79 3.33 4.05 3.24 3.33	3.51 3.96 4.77 4.41 4.05	3.96 4.59 5.22 5.58 4.50	1.00 1.35 1.00 1.20 1.00	2.5 1.9	2.1 3.2 2.4	1.6 1.3	0.5 0.5 0.5	0.33 0.33 0.33 0.30 0.33	2.79 3.06 3.78 2.52 3.06	3.24 3.36 4.23 2.79 3.51	3.54 3.65 4.53 3.06 3.81
Spec. 3.3 2.2 ¶2.6 2.7	0.8	1.0 1.2 0.5 1.0	3.50 3.42 2.43 2.79 2.88	4.50 4.32 3.51 3.51 3.78	5.50 5.22 4.59 3.96 4.68	1.35 1.20 1.00 1.20	Spec. 2.8 1.7 2.1	1.9	1.8 1.2 1.4	0.5	0.33 0.30 0.33 0.30	3.50 3.28 2.38 2.61 2.65	4.50 3.58 2.65 3.06 2.92	5.50 3.88 2.92 3.36 3.19
Spec.	* *		3.50	4.50	5.50		Spec.					3.50	4.50	5.50
c2.1 ¶2.3 3.0 ¶3.0	0.8	0.7 0.5 1.0 0.5	2.65 2.52 3.15 3.15	3.28 3.24 4.05 3.87	3.91 3.69 4.95 4.32	1.10 1.00 1.35 1.00	2.1	1.7	1.4	0.5 0.5	0.38 0.33 0.33 0.33	2.56 2.43 3.28 3.06	2.91 2.88 3.58 3.51	3.25 3.18 3.88 3.81
1.6 ¶1.6 ¶2.4 4.0 2.7	0.8 0.8 	0.6 0.5 0.5 1.5 1.3	1.89 1.89 2.61 4.05 2.88	2.43 2.61 3.33 5.40 4.05	2.97 3.06 3.78 6.75 5.22	1.00 1.00 1.00 1.35 1.35	1.5 2.3 2.8	0.8 1.9	1.1 1.5 1.8	0.5	0.25 0.33 0.33 0.33 0.33	2.07 1.62 2.61 2.92 3.28	2.29 2.07 3.06 3.22 3.58	2.52 2.37 3.36 3.52 3.88
¶2.3 ¶2.2 3.2 3.0 ¶3.0	0.8 0.8 	0.5 0.5 0.8 1.0 0.5	2.52 2.43 3.33 3.15 3.15	3.24 3.15 4.05 4.05 3.87	3.69 3.60 4.77 4.95 4.32	1.00 1.00 1.35 1.35 1.00	2.8	1.4 1.6 2.5	1.8 2.0	0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.16 2.34 3.28 3.51 3.15	2.61 2.79 3.58 3.81 3.60	2.91 3.09 3.88 4.10 3.90
2.2 ¶2.7 2.2 2.8 2.6	0.8	1.2 0.5 1.0 0.9 1.2	2.43 2.88 2.43 2.97 2.79	3.51 3.60 3.33 3.78 3.87	4.59 4.05 4.23 4.59 4.95	1.20 1.00 1.20 1.35 1.35	1.9 2.1 2.5 3.2	2.0	1.3 1.4 1.6 2.1	0.5	0.30 0.33 0.30 0.33 0.33	2.52 2.70 2.65 3.06 3.60	2.79 3.15 2.92 3.36 3.90	3.06 3.45 3.19 3.65 4.19

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a n	ninimum
					Dom	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block		Rate r	per kwh or		Ne	t monthly for	bill
	Flat-ra pe or sch	■House he	Number of in fir	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Webbwood	¢ No. 48 42 45 41 37	¢	No. 60 60 60 50 60	6.0 2.4 3.3 2.0 3.8	¢ 1.0	¢ 0.7	¢ 2.5 1.1 1.3 1.0 1.5	\$ 4.14 1.69 2.25 1.35 2.59	\$ 8.64 3.67 4.59 3.01 5.29	\$ 13.14 5.65 6.93 4.27 7.99
West Lorne Weston Westport Wheatley Whitby	52 37 40 53 41	1.67	60 60 60 60	3.3 2.5 3.0 3.3 2.7			1.2 1.2 1.0 1.2 1.2	2.21 1.78 1.98 2.21 1.89	4.37 3.94 3.78 4.37 4.05	6.53 6.10 5.58 6.53 6.21
†White River Wiarton. Williamsburg. Winchester Windermere.	60 43 40 42 45		50 50 60 60 50	7.0 2.4 2.0 2.5 3.2	3.5 1.2 1.6	0.7	1.6 1.0 0.8 1.2 1.4	4.72 1.62 1.37 1.78 2.16	10.17 3.55 2.81 3.94 4.77	13.05 4.81 4.25 6.10 6.57
Windsor. Wingham. Woodbridge. Woodstock Woodville.	40 44 44 39 48	1.67 1.67 	50 50 60 50 60	2.4 2.4 2.8 3.2 3.8	1,2 1.2 1.6	0.7 0.7 0.9	1.0 1.0 1.2 1.3 1.2	1.62 1.62 1.94 2.16 2.48	3.55 3.55 4.10 4.72 4.64	4.81 4.81 6.26 6.34 6.80
Wyoming	50 42 51		60 50 60	3.4 2.2 3.7	1.1 	0.7	1.0 1.0 1.2	2.20 1.48 2.43	4,00 3.28 4.59	5.80 4.54 6.75

[†] Local system

House Heating

NOTES

Applicable where electric energy is used to heat an entire dwelling or a portion of a dwelling in excess of 25% of the floor area.

Service Charges

- a 33¢ per month per service when the permanently installed appliance load is under 2,000 watts and 66¢ per month when 2,000 watts or more.
- b 56¢ per month.
- c Demand rate 8.5¢ per 100 watts, minimum 50¢.
- d Minimum demand charge 25¢.

Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1958

are subject to 10% prompt payment discount monthly charge

	Con	IMERCIA	AL SERV	ICE					Pow	ER SEI	RVICE			
per 5. minin Ener	mand ra 100 wat 0 cents, num 50 cents gy rate for use w of der	per of	f	monthly for use of w of dem		Demand rate per kw	:	for	rate per r use of tw of de			1	monthly for use of w of dem	f
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
\$\\ \frac{\psi}{5.5} \\ 2.1 \\ 2.8 \\ \price \\ 2.5 \\ 2.9 \\ 2.3 \\ \psi \\ \psi \\ 2.2 \\ 2.0 \\ 2.0 \\ \psi \\ 2.8 \\ \psi	¢	\$\\\ 2.5 \\ 1.0 \\ 1.2 \\ 1.0 \\ 1.2 \\ 1.0	\$ 5.40 2.34 2.97 2.07 3.42 2.97 2.25 2.70 3.06 2.52 5.67 2.43 2.25 2.97 2.43	\$ 7.65 3.24 4.05 2.79 4.50 4.05 3.15 3.60 4.14 3.42 6.39 3.15 2.97 3.24 3.69	\$ 9.90 4.14 5.13 3.24 5.58 5.13 4.05 4.50 5.22 4.32 6.84 3.60 3.69 4.23 4.14	\$ 1.35 1.20 1.35 1.20 1.35 1.20 1.35 1.20 1.35 1.35 1.20	¢ 3.5 1.9 2.0 2.3 2.9 1.6 2.2 2.5 2.1 3.1 2.0	\$ 1.3 5.1 1.7 2.3	¢ 2.3 1.3 1.3 1.5 1.5 1.9 1.0 1.4 1.6 1.4 2.0 1.3	¢	6 0.33 0.30 0.33 0.33 0.33 0.33 0.33 0.3	\$ 3.82 2.52 2.70 2.07 2.92 3.37 2.25 2.83 3.06 2.65 5.49 2.43 3.51 2.70 2.97 2.25	\$ 4.12 2.79 3.00 2.52 3.22 3.67 2.52 3.13 3.36 2.92 5.94 2.88 3.81 3.00 3.42 2.70	\$ 4.42 3.06 3.29 2.82 3.52 3.97 2.79 3.43 3.65 3.19 6.24 3.18 4.10 3.29 3.72
¶2.2 ¶2.1 2.3 ¶2.3 3.2	0.8	0.5 1.2 0.5 1.2	2.34 2.52 2.52 3.33	3.06 3.60 3.24 4.41	3.51 4.68 3.69 5.49	1.00 1.20 1.00 1.35	2.1	1.6	1.4	0.5	0.33 0.30 0.33 0.33	2.34 2.65 2.34 3.06	2.79 2.92 2.79 3.36	3.09 3.19 3.09 3.65
2.9 ¶1.7 3.4	0.8	0.7 0.5 0.9	3.06 1.98 3.51	3.69 2.70 4.32	4.32 3.15 5.13	1.35 1.00 1.35	3.2	1.2	2.1	0.5	0.33 0.33 0.33	3.60 1.98 3.51	3.90 2.43 3.81	4.19 2.73 4.10

NOTES

Special Rates or Discounts

‡2-wire service next 80 kwh; 3-wire service next 180 kwh.

*First 60 kwh of monthly consumption at 2.0¢, second 60 kwh and all kwh in excess of 1,000 at 1.0¢.

**Flat-rate water-heater service—Toronto:

System-owned—First 400 watts \$2.90 per month.

Each 100 watts additional 40¢ per month, plus a monthly charge for larger tank sizes as follows:

 $30\,e$ for 1,000-watt and 1,200-watt heaters. $40\,e$ for 1,500-watt heaters. $50\,e$ for 2,000-watt and 2,500-watt heaters.

55¢ for heaters 3,000 watts and over.

Customer-owned—First 400 watts \$1.98 per month.

Each 100 watts additional 40¢ per month.

Commercial customers with a connected load of under 5 kilowatts billed at domestic rates.

§Farm customers billed at standard rural rates.

§§Farm customers billed at special rates.

Municipal Electrical GROSS MONTHLY ENERGY RATES

Subject to 10%

Element			1		1								1	1		Sc	HEDUL
rating	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
watts	\$	\$	\$ -	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
400	1.00	1.04	1.08	1.12	1.16	1.20	1.24	1.28	1.32	1.36	1.40	1.44	1.48	1.52	1.56	1.60	1.64
450	1.12	1.17	1.21	1.26	1.30	1.36	1.40	1.44	1.49	1.53	1.58	1.62	1.67	1.71	1.76	1.80	1.84
500	1.25	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.70	1.75	1.80	1.85	1.90	1.95	2.00	2.05
550	1.38	1.43	1.49	1.54	1.60	1.66	1.70	1.76	1.81	1.87	1.92	1.98	2.03	2.09	2.14	2.20	2.26
600	1.50	1.56	1.62	1.68	1.74	1.80	1.86	1.92	1.98	2.04	2.10	2.16	2.22	2.28	2.34	2.40	2.46
650	1.59	1.66	1.71	1.78	1.84	1.91	1.97	2.03	2.10	2.16	2.22	2.29	2.36	2.41	2.48	2.54	2.61
700	1.68	1.74	1.81	1.88	1.94	2.01	2.08	2.14	2.21	2.28	2.34	2.41	2.48	2.54	2.61	2.68	2.74
750	1.78	1.84	1.91	1.99	2.06	2.12	2.20	2.27	2.34	2.41	2.48	2.56	2.62	2.69	2.77	2.83	2.91
800	1.86	1.93	2.00	2.08	2.16	2.22	2.30	2.38	2.44	2.52	2.60	2.67	2.74	2.82	2.90	2.97	3.04
850	1.94	2.02	2.10	2.18	2.26	2.33	2.41	2.49	2.57	2.64	2.72	2.80	2.88	2.96	3.03	3.11	3.19
900	2.04	2.12	2.20	2.29	2.37	2.44	2.53	2.61	2.69	2.78	2.86	2.93	3.02	3.10	3.18	3.27	3.34
950	2.13	2.22	2.30	2.39	2.48	2.56	2.64	2.73	2.81	2.90	2.99	3.07	3.16	3.24	3.33	3.41	3.50
1000	2.22	2.31	2.40	2.49	2.58	2.67	2.76	2.84	2.93	3.02	3.11	3.20	3.29	3,38	3.47	3,56	3.64

Note: Gross monthly rates for all element sizes over 1,000 watts are calculated as follows:

Rate for 1,000 watt element $\times \frac{\text{Element rating}}{1000}$

Utilities and Local Systems FOR FLAT-RATE WATER-HEATING

prompt payment discount

NUMB	ER																	
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	S	\$	\$	\$	s	S	s
1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.96	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.28	2.32	2.36	2.40
1.89	1.93	1.98	2.02	2.07	2.11	2.16	2.20	2.26	2.29	2.34	2.38	2.42	2.47	2.52	2.56	2.60	2.66	2.72
2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.45	2.50	2.55	2.60	2.65	2.70	2.75	2.80	2.85	2.90	2.95	3.00
2.31	2.37	2.42	2.48	2.53	2.59	2.64	2.70	2.76	2.81	2.86	2.92	2.98	3.03	3.08	3.14	3.20	3.26	3.32
2.52.	2.58	2.64	2.70	2.76	2.8.2	2.88	2.94	3.00	3.06	3.12	3.18	3.24	3.30	3.36	3.42	3.48	3.54	3.60
2.67	2.73	2.80	2.86	2.92	2.99	3.06	3.11	3.18	3.25	3.32	3.37	3.42	3.49	3.56	3.62	3.68	3.75	3.82
2.81	2.88	2.94	3.01	3.08	3.14	3.21	3.28	3.34	3.42	3.48	3.55	3.62	3.69	3.76	3.82	3.88	3.95	4.02
2.98	3.04	3.12	3.19	3.26	3.33	3.40	3.48	3.54	3.62	3.68	3.75	3.82	3.90	3.98	4.05	4.12	4.18	4.24
3.12	3.19	3.27	3.34	3.41	3.49	3.57	3.63	3.71	3.79	3.86	3.93	4.00	4.08	4.16	4.24	4.32	4.38	4.44
3.27	3.34	3.42	3.50	3.58	3.66	3.73	3.81	3.90	3.96	4.04	4.12	4.20	4.28	4.36	. 4.44	4.52	4.59	4.66
3.42	3.51	3.59	3.67	3.76	3.83	3.91	4.00	4.08	4.16	4.24	4.32	4.40	4.49	4.58	4.66	4.74	4.81	4.88
3.59	3.67	3.76	3.84	3.92	4.01	4.10	4.18	4.27	4.35	4.44	4.52	4.60	4.69	4.78	4.87	4.96	5.04	5.12
3.73	3.82	3.91	4.00	4.09	4.18	4.27	4.36	4.44	4.53	4.62	4.71	4.80	4.89	4.98	5.07	5.16	5.25	5.34

Forty Major Municipal (Arranged in descending order

CUSTOMERS, REVENUE, for the Year Ended

			(Inc	Domestic cluding flat-rat			
Municipality	Total revenue including street lighting	Total consumption including street lighting	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	\$	kwh	\$	kwh	No.	kwh	¢
Toronto (including Leaside)		2,900,634,585				449	1.25
Hamilton	13,082,985	1,489,579,171	3,713,176	317,825,946	65,302	406	1.13
♦Ottawa (including Eastview and	0.016.106	004 540 245	2 002 010	503,587,808	70,169	598	0.78
Rockcliffe Park)	9,016,126 7,775,714		3,923,818 4,587,300			553	1.13
Scarborough Twp	6,456,048				50,632	484	1.2
Etobicoke Twp. (including							
Thistletown)	5,166,396	476,919,949	2,904,193	258,234,451	**40,582		
♦Windsor	4,209,659					303	1.1
London	3,739,463	325,291,110	1,516,189			341	1.3
♦ York Twp	3,044,134			1			0.9
♦Oshawa	2,428,885	281,017,502	846,743	103,974,318	15,988	542	0.8
♦Toronto Twp	2,754,664	279,973,476	997,262	82,971,098	13,035	530	1.2
Kitchener	3,302,838	274,795,503	1,326,657			491	1.1
♦Sarnia	2,313,202						1.2
St. Catharines	2,273,472						1.2
Brantford	2,024,668	186,170,990	835,544	72,760,027	14,637	414	1,1.
Peterborough	1,850,007					566	0.9
Fort William	1,574,298						0.7
Port Arthur	1,630,954	1 '				582	0.8
Kingston ♠East York Twp	1,806,406 1,804,901					557 465	1.0
	4 205 702	120 276 246	647,831	58,059,146	9,966		
♦Guelph Sudbury							1.1
New Toronto				1			1.1
Galt	1,088,254	1		1			1.2
♦Niagara Falls	967,139	82,191,486	388,416	32,021,134	6,904	387	1.2
Merritton	679,158	82,135,723	93,667	7,792,680	1,622	400	1.2
♦Woodstock	904,340						
Trenton	577,124						
Belleville Barrie	675,997 700,758					575 564	0.7
	1 1 47 1 37	68,574,111	308,918	16,561,045	6,236	221	1.8
ChathamStamford Twp	1,147,137 890,351						1.8
North Bay		1	1				1.1
Stratford	824,782						1.1
St. Thomas	783,371	66,602,459	348,908	27,096,449	6,055	373	1.2
Brockville	629,276	64,193,197	249,013	24,135,941	4,495	447	1.0
Waterloo	756,822						
Orillia					1		
Forest Hill	753,671						
Welland	706,200	59,870,448	179,339	14,737,728	4,515	272	1.2

^{**} Small commercial customers transferred to domestic billing

New municipal resale rate structure

and with small commercial customers transferred to domestic billing

Electrical Utilities

of total consumption)

AND CONSUMPTION

December 31, 1958

(Inclu	Commercial iding flat-rate				Power service						
. Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh	
\$	kwh	No.	kwh	é	\$	kwh	No.	kw	kwh	¢	
9,036,649	608,792,670	27,592	1,839	1.48	13,502,227					1.02	
1,949,882	154,126,860		1,622	1.27	7,103,796	1,000,964,108	1,382	224,489		0.71	
4,209,585	339,344,940	10,143	2,788	1.24	583,235	50,707,385	209	20,243	20,218	1.15	
1,758,586	104,528,975		1,846	1.68	1,287,499		881	42,027			
1,016,846	61,426,153			1.66	1,461,202			42,237		1.03	
754,410	52,064,341	**1,408			1,364,963	159,195,697	695	44,367		 	
775,311	58,314,145		2,305	1.33	1,820,952		750			1.12	
868,871	63,469,066			1.37	1,218,129						
405,922	32,976,279			1.23	578,976						
340,473	28,227,664	1,420	1,657	1.21	1,148,928	144,062,720	243	36,963	49,404	0.80	
296,615	19,849,908	874	1,893	1.49	1,407,891	175,328,890	133	32,572	109,855	0.80	
602,022	37,984,122			1.58	1,277,773		363	36,365	27,695	1.06	
301,608	20,819,246	773	2,244	1.45	1,309,477	191,239,206	150	30,434	106,244		
428,394	25,029,424	1,553	1,343	1.71	1,044,722	105,911,502				0.99	
326,729	25,724,346	1,504	1,425	1.27	804,335	84,782,493	296	29,283	23,869	0.95	
387,729	24,462,789	1,368	1,490	1.58	563,703	69,676,468	237				
331,825	32,407,403	1,466	1,842	1.02	481,451						
339,193	31,207,007			1.09							
599,789	50,904,067			1.18	368,153						
206,088	14,831,329	723	1,709	1.39	317,112	34,540,992	193	10,417	14,914	0.92	
248,935	16,803,525	1,042			448,754						
503,124	29,461,423				166,150						
84,351	6,320,887										
170,266	9,627,454				424,036						
302,761	24,385,042	547	3,715	1.24	237,822	23,854,910	55	7,375	36,144	1.00	
33,947	1,751,000	147	993						207,832		
129,837	8,516,649										
77,255	7,020,288										
195,287	17,008,931	993		1.15						0.79	
173,344	12,217,159	697	1,461	1.42	161,965	20,496,486	100	6,312	17,080	0.79	
350,167	16,633,313	1,032	1,343	2.11	427,359	33,605,083	227	12,203			
168,254	7,841,080										
247,912	18,389,518		1,516								
159,901	10,177,050				216,731						
159,833	11,457,980	713	1,339	1.39	254,797	27,362,830	102	8,394	22,355	0.93	
96,409	7,404,340	572	1,079	1.30	269,070						
126,305							105				
140,781					277,416						
165,456				1					2,137	1.27 1.00	
149,542	9,537,458	620	1,282	1.57	342,780	34,160,062	134	10,299	21,244	1.00	

			(In	Domestic cluding flat-rat		ontoro)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus-	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	é
Acton	4,053	1,297	80,201	6,166,939	1,130	455	1.30
Ailsa Craig	516		8,767		183	270	1.48
♠Ajax,	7,982		134,977	1	1,963		
♦Alexandria	2,620	835	34,184	3,014,312	749		
♠Alfred	1,007	294	11,312	575,482	270		
Alliston	2,903	1,015	50,714	4,656,195	831	467	1.09
♦Almonte	3,164	1,039	44,647		959		
Alvinston	641	316	7,069		247	128	1.87
◆Amherstburg	4,504	1,387	88,841	7,385,220	1,250		
Ancaster Twp (including Ancaster) .	13,189	1,100	91,936	7,017,565	1,026	. 570	1.31
Apple Hill.	400	123	4,240	254,890	102	208	1.66
◆Arkona	440		10,312		176	337	1.45
◆Arnprior	5,407	1,694	82,587		1,571	443	0.99
♦Arthur	1,203	476	20,180		423	337	1.18
♦Athens	943	336	10,951		320	291	0.98
♦Atikokan Twp	6,430	1,843	149,098	11,428,066	1,714	556	1.30
♦Aurora	4,371	1,665	76,818	7,783,362	1,436	452	0.99
Aylmer	4,411	1,591	67,990	6,110,408	1,323	385	1.11
Ayr	969	362	16,690	1,421,776	297	399	1.17
◆Baden	803	266	14,249	1,188,398	251	395	1.20
♦†Bala	*475	752	25,097	1,055,243	674		
Bancroft	2,612	780	41,893	2,783,220	648	358	1.51
Barrie	20,243		351,855		5,345	564	0.97
◆Barry's Bay	1,479	390	12,865		362		
Bath	676	234	13,560	949,461	209	379	1.43
◆Beachville	818	282	15,065	- , ,	273	412	1.12
Beamsville	2,291	789	45,860		673	531	1.07
†Beardmore	1,137	295	16,642		227	. 338	1.81
Beaverton	1,111	525	23,083		430	348	1.28
Beeton	739	304	14,371	951,770	251	316	1.51
◆Belle River	1,830		27,097		597	197	1.92
Belleville	28,032	7,162	325,007		6,011	575	0.78
Blenheim	2,860	1,082	31,265		879	187	1.58
♦†Blind River	3,933	1,218	71,227	, ,	1,123		
◆ Bloomfield	744	307	11,071	1,059,450	284	<i>.</i>	
Blyth	733		12,849		249	328	1.31
Bobcaygeon	1,184		24,021		552	216	1.68
Bolton	1,556		37,261		524	. 410	1.44
Bothwell	807	317	7,470		239	192	1.35
⊕Bowmanville	7,112	2,365	114,725	11,621,936	2,194	441	0.99

[†] Local system

[♦] New municipal resale rate structure

and with small commercial customers transferred to domestic billing
 Excluding summer population

Utilities and Local Systems AND CONSUMPTION December 21, 1058

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D	$\mathbf{e}\mathbf{c}$	em	D	\mathbf{er}	3.	Ι.	1	4	Э	ð	

	Commercial					Pow	ER SERVIO			
(Inc	luding flat-rate	e water-he	eaters)			FOW	ER SERVIC			
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	é	\$	kwh	No.	kw	kwh	é
29,111	1,464,799	138	885	1.99	83,263	6,356,721	29	2,278	18,266	1 .
4,313	204,618	. 38	449	2.11	4,117	153,742	4	119	3,203	2.68
41,631	2,035,072	120			138,922	11,114,148	66	3,701	0,200	2.00
21,292	1,357,721	68			21,227	1,274,252	18	737		
5,579	202,378	16			5,910	236,173	8	190		
					,,,,,,,,,			1,70		
23,180	1,311,224	156	700	1.77	15,265	1,176,294	28	500	3,501	1.30
14,297	920,132	55			30,810	3,424,025	25	1,196		
6,084	269,090	61	368	2.26	2,243	78,961	8	72	823	2.84
34,601	2,084,387	111			57,632	4,874,165	26	1,541		
17,254	679,956	63	899	2.54	3,834	214,670	11	115	1,626	1.79
1,270	56,740	21	225	2.24						
2,019	131,156	10	1,093	1.54	2,154	122,756	2	61	5,115	1.75
28,802	2,056,536	90	1,904	1.40	55,323	4,790,558	33	1,903	12,097	1.15
6,933	356,682	38	782	1.94	5,111	310,660	15	201	1,726	1.65
1,777	136,690	14	814	1.30	917	51,403	2	50	2,142	1.78
47,998	2,879,417	103	2,330	1.67	29,422	2,660,258	26	807	8,526	1.11
38,349	2,815,380	189	1,241	1.36	49,906	4,470,787	40	1,681	9,314	1.12
43,029	3,105,282	235	1,101	1.39	70,520	6,108,251	33	2,632	15,425	1.15
8,023	441,217	53	694	1.82	9,002	367,377	12	306	2,551	2.45
2,142	140,059	10	1,167	1.53	15,746	1,261,395	5	494	21,023	1.25
10,209	437.688	73			1.087	59,944	5	46		
26,672	1,237,790	120	860	2.15	11,946	604,020	12	393	4,195	1.98
173,344	12,217,159	697	1,461	1.42	161,965	20,496,486	100	6,312	17,080	0.79
8,300	334,588	25			918	62,690	3	21	11,000	0117
3,307	131,776	24	458	2.51	384	6,810	1	16	568	5.64
1 661	74 500	7	887	2,23	89,678	12,883,170	2	1,907	536,799	0.70
1,661 17,614	74,509 1,014,527	105	805	1.74	9,783	576,655	11	408	4,369	1.70
15,735	656,620	66	829	2.40	110	250	2	7	4,507	1.70
11,058	664,680	84	659	1.66	20,393	1,343,426	11	675	10,177	1.52
4,978	199,315	44	377	2.50		320,430	9	131	2,967	1.76
			4.040	4.00	7 504	240 702	_	0.0	4.010	1 40
13,195	687,780	55	1,042	1.92 1.15	3,584 134,526	240,702 16,926,474	5 158	98 5,699	4,012 8,927	1.49 0.79
195,287	17,008,931	993	1,427				24	791		1.99
30,716	1,583,878	179 79	737	1.94	27,342 20,411	1,371,995 1,318,641	16	457	4,764	1.99
46,059	2,284,939					57,008	8	132		
5,557	311,160	15			2,760	37,008	8	132		
6,995	359,066	72	416	1.95	13,020	945,855	7	270	11,260	1.38
12,281	561,365	116	403	2.19	6,167	274,801	. 7	201	3,271	2.24
6,583	331,760	19	1,455	1.98	5,483	264,458	18	188	1,224	2.07
6,658	413,050	69	499	1.61	5,515	114,850	9	225	1,063	4.80
32,280	2,392,629	132	1,510	1.35	84,049	9,017,777	39	2,950	19,269	0.93

			(In	Domestic		entere)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus-	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
Bracebridge	2,802	1,242	63,115	4,526,560	1,014	372	1.39
◆Bradford	2,212	770	38,750	3,278,150	675		
Braeside	510	153	6,510	385,664	142	226	1.69
Brampton	14,374	4,446	261,661	21,949,430	3,898	469	1.19
Brantford	52,668	16,437	835,544	72,760,027	14,637	414	1.15
♦Brantford Twp	6,722	1,953	211,518	11,931,475	. 1,825		
♦Brechin	219	95	3,373	295,865	79	312	1.14
♦Bridgeport	1,602	406	27,758		382		
Brigden	525	220	4,920	330,530	161	171	1.49
♠Brighton	2,256	939	40,038	3,674,740	. 861	356	1.09
Brockville	15,701	5,164			4,495	447	1.03
Bronte	*2,254	711	41,088		638	356	1.51
Brussels	808	1	15,157		285	366	1.21
♦Burford	1,041	421	25,098	1,752,049	342	427	1.43
Burgessville	248	99	5,123	394,438	78	421	1.30
Burk's Falls	895		14,605		254	306	1.56
♦Burlington	37,630		277,743		11,484		
◆Cache Bay	896		8,117		186		
Caledonia	2,170				626	254	1.36
Campbellville	342	84	5,943	428,530	73	489	1,39
Cannington	1,012		18,854	, ,	355	363	1.22
Capreol	2,474		62,373		816	434	1.47
Cardinal	2,040	į .	34,070		558	436	1.17
©Carleton Place	4,684		89,394		1,550	395	1.22
♦ Casselman	1,264	360	19,490	1,055,630	339	259	1.85
◆Cayuga	850	351	12,001	846,407	310	228	1.42
♦Chalk River	986	267	19,429	1,062,067	255	347	1.83
Chapleau Twp	3,714	957	75,917	1,383,433	843	137	5.49
Chatham	22,352	7,495	308,918	16,561,045	6,236	221	1.87
♦Chatsworth	394	166	7,351	581,650	146	332	1.26
Chesley	1,650	702	28,367	2,480,150	574	360	
Chesterville	1,229		18,280		353	353	1.22
Chippawa	2,380	891	40,548	3,214,490	809	331	1.26
♦Clifford	538	216	11,772		195	361	1.39
Clinton	2,970	1,153	66,922	5,176,057	945	456	1.29
†Cobalt	2,212				625	319	1.60
♦Cobden	877	1	. ,	/- /	345	365	0.93
♦Cobourg	8,919			1	2,880		
Cochrane	4,396		86,788		1,032	526	1,33
Colborne	1,228	529	24,428	2,092,260	431	405	1.17

[†] Local system

New municipal resale rate structure with small commercial customers transferred to domestic billing
 * Included with Trafalgar Twp. effective January 1, 1959

Utilities and Local Systems AND CONSUMPTION

December 31, 1958

(Inc	Commercia cluding flat-rat					Pow	ER SERVIC	Œ		
, Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
43,165	2,910,619	208	1,166	1.48			20	440		1.58
22,364	1,151,050	66	1,100	1,40	18,454	1,711,190	29	521		1,30
862	34,842	9	323	2.47	9,950		2	307		1.66
106,671	6,603,887	431	1,277	1.62	109,456		. 117	3,823		
326,729	25,724,346	1,504	1,425	1.02	804,335		296	29,283		
320,129	23,724,340	1,504	1,725	1.27	_004,555	04,702,493	. 250	29,203	23,009	0.93
49,427	2,209,252	. 91			89,486	4,600,501	37	2,461		
2,441	140,749	15	782	1.73	578	23,620	1	2,401		2.45
7,289	434,299	20	102	1.75	2,687	174,620	4	123		2.73
4,461	250,000	51	408	1.78	4,538		8	142		3.52
13,823	802,294	66	1,013	1.72	7,366		12	287		1.34
13,623	002,274	00	1,010	1.72	,,,,,,	017,200	12	. 201	3,014	1.01
96,409	7,404,340	572	1,079	1.30	269,070	32,105,816	97	9,219	27,582	0.84
12,385	621,065	64	809	1.99			9	119		1.55
8,676	448,759	80	467	1.93	6,932	303,545	9	183		2.28
8,628	464,634	73	530	1.86			. 6	154		1.76
1,906	84,434	18	391	2.26		29,030	3	69		5.73
1,500	01,101	, . 10	071	2.20	1,000	27,000		0,		0
10,332	454,410	66	574	2.27	2,878	89,150	. 5	. 83	1,486	3.23
114,827	6,920,257	428			56,927	4,120,040	. 121	1,544	1	
1,082	34,307	120			12,073	458,478	3	250		
16,927	1,039,774		741	1.63		825,677	21	399		1.59
1,151	56,440	10	470	2.04		48,800	1	8	,	1.01
2,101	00,110									
7,458	381,443	72	441	1.96	5,933	220,795	. 12	. 211	1,533	2.69
11,867	763,758	85	749	1.55	13,834	1,134,170	. 3	315	31,505	1.22
8,986	496,895	70	592	1.81	1,522	106,354	3	. 43	2,954	1.43
22,678	1,208,942	90	1,119	1.88	42,287	3,725,914	27	1,279	11,500	1.13
4,004	174,180	14	1,037	2.30	11,641	658,320	7	. 348	7,837	1.77
-,										
7,278	434,113	32	1,131	1.68	4,196	123,440	9	198	1,143	3.40
3,578	222,846	10	1,857	1.61	4,382	280,050	. 2	107	11,669	1.56
34,609	545,796	. 98	464	6.34	14,223	431,171	16	. 147	2,246	3.30
350,167	16,633,313	1,032	1,343	2.11	427,359	33,605,083	227	12,203	12,337	1.27
3,481	201,740	19	885	1.73	1,066	43,800	1	32	3,650	2.43
13,626	724,495	101	598	1.88	11,819	722,800	27	. 441	2,231	1.64
9,127	500,477	. 78	535	1.82	26,577	2,780,737	.10	695		0.96
9,870	512,780	74	577	1.92	2,638	252,159	8	117		1.05
3,329	174,990	14	1,042	1.90	3,731	261,015	7.	83		1.43
32,960	1,689,041	180	782	1.95	22,891	1,427,064	28	587	4,247	1.60
25,000	1,021,011	113	753	2.45	8,146		. 11	232		1.14
3,566	232,161	18	1,075	1.54		194,419	7	. 192		1.97
84,265	5,049,566	182			139,812	13,556,179	64	4,140		
51,134	2,813,246	- 189	1,240	1.82	20,936		30	528		1.26
13,192	602,886	90	558	2.19	4,205	259,205	8	117	2,700	1.62

			(Inc	Domestic		eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus-	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
Coldwater	720	257	11,699	965,670	207	389	1.21
Collingwood	8,302	2,933	131,442	11,026,661	2,511	366	1.19
Comber	570	235	6,275	362,290	169	179	1.73
♦Coniston	2,549	638	38,923	2,781,461	621	373	1.40
Cookstown	662	246	10,846	816,780	208	327	1.33
◆Cottam	629	234	8,043	561,590	212	.221	1.43
♦Courtright	567	195	5,371	399,232	182	183	1.35
Creemore	. 884	356	15,423	1,325,160	299	369	1.16
♦Dashwood	382	174	10,271	639,521	164	325	1.61
♦‡Deep River	4,403	1,264	33,759	4,090,434	1,152		
Delaware	419	137	9,074	616,849	118	436	1.47
Delhi	3.189	1,288	51,155	4,128,171	1,021	337	1.24
♦Deseronto	1.798	633	26,727	2,382,211	589	337	1.12
◆Dorchester	800	306	13,030		291	287	1.30
Drayton.	586	266	11,948	713,879		275	1.67
Drayton	380	200	11,740	713,079	,. 210	213	1.07
♦Dresden	2,203	885	28,073	1,709,510	799	178	1.64
Drumbo	352	163	7,235		127	375	1.27
Dryden	4,993	1,583	109,928	8,373,376	1,374	508	1.31
Dublin	256	112	5,092	390,770	81	402	1.30
♦Dundalk	853	405	15,399	1,074,650	356		
Dundas	10,597	3,356	183,612	14,931,691	2,972	419	1.23
Dunnville	5,092	1,854	58,624	3,516,566	1,537	191	1.67
Durham	2,065	805	33,012	2,645,160	655	337	1.25
♦Dutton	783	23 348	10,098	696,242	320	181	1.45
◆East York Twp	68,312	21,278	1,209,315	113,713,561	20,362	465	1.06
· Eganville	1,570	549	. 23,312	1,395,373	448	260	1.67
†Elk Lake Townsite	§450	184	6,350	426,924	135	264	1.49
**Elmira	2,890	1,081	65,060	5,455,216	990	459	1.19
◆Elmvale	917	7 377	16,441	1,440,980	336	357	1.14
Elmwood	§406	135	3,967	293,730	123	199	1.35
Elora	1,468	: 532	29,263	1,913,263	455	350	1.53
Embro	. 542	228	12,289		179	456	1.26
†Englehart	1,633	590	37,342		486	378	1.70
Erieau	451	320	12,148		284	249	1.43
Erie Beach	*96	134	4,627	139,250	128	91	3.32
♠Erin	996	394	19,524	1,428,140	366	325	1.37
Essex	3,480	1,183	40,628		968	233	1.50
Etobicoke Twp (including							
Thistletown)	121,258	42,685	2,904,193	258,234,451	**40,582		
Exeter	. 2,758	1,162	66,561	4,837,761	952	423	1.38
Fergus	3,725	1,297	83,291	6,032,821	1,121	448	1.38

[†] Local system

[♦] New municipal resale rate structure

and with small commercial customers transferred to domestic billing

[§] Estimated

^{*} Excluding summer population

[‡] Five months' operation

Utilities and Local Systems AND CONSUMPTION December 31, 1958

(Inc	Commercial					Pow	ER SERVIO	CE .		
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	é	s	kwh	No.	kw	kwh	é
6,149		3 46	1	1.65		355,306	4	232		2.09
69,133	4,218,080	* 362	971	1.64	90,031	8,537,752	60	3,218	11,858	1.05
6,057	278,648	58	400	2.17	6,725	224,632	8	214	2,340	2.99
5,610		5 16	1,409	2.07	175	6,880	1	7	573	2.54
3,550		34	292	2.98	2,444	169,826	4	87	3,538	1.44
2,583	129,620	f 16	675	1.99	2,688	76,587	6	128	1,064	3.51
1,539	107,524	11	815	1.43	583	68,456	2	16		0.85
5,309	267,480	53	421	1.98	2,050	92,240	4	95	1,922	2.22
1,652	79,660	. 7	948	2.07	1,182	30,970	3	65	860	3.82
13,808	1,026,522	104			2,246	261,623	8	196		
3,592	143,746	~ 19	630	2.50						
44,637	2,379,405	. 226	877	1.88	37,473	2,100,205	41	1,258	4,269	1.78
5,441	347,046	28	1,033	1.57	13,644	892,480	16	529	4,648	1.53
1,330	59,590	12	414	2.23	2,443	119,010	3	83	3,306	2.05
4,502	216,020	46	391	2.08	2,216	76,483	4	66	1,593	2.90
20,892	1,207,520	60	1,677	1.73	26,432	1,460,501	26	828	4,681	1.81
2,610	128,586	. 33	325	2.03	1,658		3	64		3.94
74,734	3,014,335	189	1,329	2.48	7,821	391,100	20	246		
3,459	194,050	29	558	1.78	3,679	144,500	2	79	6,021	2.55
8,575	363,525	37			5,515	254,690	12	214		
74,248	4,152,837	313	1,106	1.79	86,323	7,158,188	71	3,174		1.21
54,064	2,922,101	277	879	1.85	88,065		40	2,197		1.24
18,279	913,275	125	609	2.00	29,516		25	903		1.81
3,890		15	1,053	2.05	5,803		13	234	3,111	1.20
206,088	14,831,329	723	1,709	1.39	317,112	34,540,992	193	10,417	14,914	0.92
16,210	672,939	89	630	2.41	6,221	399,831	12	169		1.56
4,889		44	504	1.84	9,840		5	248		3.17
22,110		63	1,747	1.67	71,847	6,185,694	28	1,962		
6,375		34	972	1.61	1,539		7	53		1.13
1,129	64,710	10	539	1.75	2,150	83,200	2	83	3,457	2.58
9,684	417,962	71	491	2.32	6,767	385,750	6	198		1.75
3,196		45	390	1.52	4,232		4	103	3,566	2.47
19,430	714,856	.: 93	641	2.72	9,177	722,880	11	195	5,476	1.27
6,679		30	ł.	1.96	8,217	288,270	6	189	4,004	2.85
483	13,485	. 6	187	3.58						
5,126	284,870	24	989	1.80	1,359	68,240	4	48		1.99
32,664	1,961,774	181	903	1.67	23,696	1,231,512	34	810	3,018	1.92
754,410	52,064,341	**1,408			1,364,963	159,195,697	695	44,367		,
26,933		179	672	1.87	19,488		31	682	2,802	1.87
31,361					56,230	4,105,266	29	1,676	11,797	1.37

^{**} Small commercial customers transferred to domestic billing

			(Inc	Domestic		eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
◆Finch	413	188	6,822	621,816	175	296	1.10
◆Flesherton	480	236	7,135	724,184	209	289	0.99
Fonthill	2,100	720	45,022	3,746,536	642	486	1.20
♦Forest	2,025	863	43,418	3,845,850	793	404	1.13
Forest Hill	19,992	6,913	539,849	46,201,350	6,243	617	1.17
Fort William	41,791	13,092	696,519	89,859,418	11,400	657	0.78
Frankford	1,631	554	22,799 445,614	1,793,949 36,702,849	473 7.363	316 415	1.27
GaltGeorgetown	25,102 8,200	8,336 3,005	188,863	14,137,803	2,762	413	1.34
†Geraldton	3,269	997	59,972	3,337,800	828	336	1.80
Gerardon	0,207	,,,,	0,,,,,	0,007,000	020	000	1100
♦Glencoe	1,105	474	11,537	890,282	409	181	1.30
♦Goderich	6,011	2,239	124,668	9,637,988	2,036		
♦†Gogama	500	113	7,038	187,150	97	161	3.76
Grand Bend	*876	812	34,272	1,632,460	702	194	2.10
Grand Valley	667	323	12,806	910,490	259	293	1.41
Granton	296	118	5,448	316,370	95	278	1.72
♦Gravenhurst	3,075	1,290	50,280	5,541,760	1,156	399	0.91
Grimsby	4,501	1,587	67,404	5,987,693	1,331	375	1.13
♦Guelph	35,787	11,201	647,831	58,059,146	9,966		
Hagersville	2,106	744	24,722	1,836,985	573	267	1.35
†Haileybury	2,531	839	49,680	3,915,741	683	478	1.27
Hamilton	248,946	74,604	3,713,176	317,825,946	65,302	406	1.17
Hanover	4,162	1,509	67,322	6,329,137	1,289	409	1.06
Harriston	1,637	641	32,154	2,470,287	574	359	1.30
♦ Harrow	1,828	684	40,543	3,031,257	593	426	1.34
Hastings	902	430	13,512	922,103	357	215	1.47
Havelock	1,288	418	19,072	1,125,226	348	269	1.69
Hawkesbury	8,359	2,083	107,310	7,402,970	1,970		
♦ Hearst	2,326	632	58,549	2,649,337	556	397	2.21
Hensall	783	338	15,811	1,333,985	259	429	1.19
♦†Hepworth	363	126	5,379	292,360	112		
Hespeler	4,109	1,323	63,097	4,764,302	1,169	340	1.32
Highgate	400	163	3,749	241,800	124	163	1.55
Holstein	170	92	3,079	239,130	74	269	1.29
†Hornepayne	1,400	448	33,995	1,058,067	408	216	3.21
†Hudson Townsite	416	179	7,330	325,411	146	186	2.25
Huntsville	3,286	1,195	58,771	5,470,788	964	473	1.07
†Ignace	634	227	11,859	357,410	192	155	3.32
Ingersoll	6,957	2,307	109,426	7,188,814	2,008	298	1.52
Iroquois	988	364	23,375	1,860,354	294	527	1.26

[†] Local system

[♦] New municipal resale rate structure

and with small comme.
 Excluding summer population and with small commercial customers transferred to domestic billing

Utilities and Local Systems AND CONSUMPTION December 31, 1958

(Incl	Commercial		eaters)		Power service							
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh		
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢		
1,054	53,150	8	554	1.98	1,128	72,210	5	38	1,204	1.56		
3,813	250,685	25	836	1.52	1,353	83,560	2	61	3,482	1.62		
10,854	578,307	70	688	1.88	3,720	120,495	8	127	1,255	3.09		
13,946	829,995	47	1,472	1.68	11,317	988,542	23	393	3,582	1.14		
165,456	10,470,000	572	1,525	1.58	31,962	2,513,575	98	1,161	2,137	1.27		
331,825	32,407,403	1,466	1,842	1.02	481,451	54,131,098	226	20,314	19,960	0.89		
8,308	399,763	77	433	2.08	1,371	82,766	4	57	1,724	1.66		
170,266	9,627,454	769	1,043	1.77	424,036	41,105,918	204	14,221	16,792	1.03		
50,832	2,609,617	208	1,046	1.95	107,203	10,719,028	35	2,899	25,521	1.00		
46,900	2,046,712	154	1,108	2.29	2,685	134,370	15	83	747	2.00		
12,108	751,076	48	1,304	1.61	7,146		. 17	331	1,392	2.52		
41,952	2,148,992	142			102,822		61	2,859				
3,731	122,050	14	726	3.06	4,356	235,532	2	57	9,814	1.85		
18,285	681,182	110	516	2.68					1			
5,210	237,553	54	367	2.19	4,531	244,270	10	156	2,036	1.85		
1,572	55,253	22	209	2.85	224	2,310	1	10	193	9.69		
25,308	2,204,720	106	1,733	1.15	32,915	3,077,363	28	1,267	9,159	1.07		
43,190	2,709,237	226	999		25,087	2,137,639	30	854	5,938	1.17		
248,935	16,803,525	1,042			448,754		193	14,968	3 <i></i>			
25,182	1,434,178	148	808	1.76	42,551	2,999,279	23	1,478	10,867	1.42		
29,264	1,285,305	135	793	2.28	10,895	755,516	21	356				
1,949,882	154,126,860	7,920	1,622	1.27	7,103,796	1,000,964,108	1,382	224,489				
24,040	1,545,475	181	712	1.56	50,925		39	1,902				
10,718	606,087	50	1,010	1.77	19,863	1,377,697	17	602				
19,863	1,098,896	79	1,159	1.81	15,978	603,940	12	556	4,194	2.65		
7,471	346,439	67	431	1			6	122				
10,670	473,079	67	588	2.26				54		1.96		
52,129	2,800,483	88			10,700		25	366		2.25		
37,656	1,556,729	66			5,709		10	101				
8,585	459,970	59	650	1.87	15,741	891,470	20	512	3,714	1.77		
2,605	109,620		1		400.000	12 076 747	32	4,221	34,575	0.97		
20,857	1,106,647	122						132				
2,503	99,660			1	4,392			132	1			
982					657							
20,018	571,264	39	1,221	3.50	11,363	953,000	1	160				
5,600	218,613	30	607	2.56	4,058			84				
48,799		1	4	1,61	29,314			1,020				
13,287						118,450		63				
55,086		1		1.81	115,057		47	3,556		1		
	790,922	60			6,060	422,056	10	177				

				Domestic	SERVICE		
			(In	cluding flat-ra	te water-h	eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	2.7						
* .	No.	No.	\$	kwh	No.	kwh	¢
Jarvis	736		6,798		209	207	1.31
†Jellicoe Townsite	§140		1,931	87,279	38		2.21
*Kapuskasing	5,911	1,904	114,854		1,695		1.17
†Kearns Townsite	§510		10,136		168		1.31
Kemptville	1,829	730	31,498	2,748,280	609	376	1.15
♠Kincardine	2,669	1,158	44,766	4,269,484	1.052	338	1.05
†King Kirkland Townsite	§320	155	4.877	313,691	135	194	1.55
Kingston	47,882	15,013	795,151	86,453,566	12,937	557	0.92
♠Kingsville	3,010	1,229	41,438	3,707,639	1,082	286	1.12
Kirkfield	132	97	3,934	218,010	75	242	1.80
			, -				
†Kirkland Lake (including Swastika).	§18,148	5,682	284,079	20,321,823	4,772	-355	1.40
Kitchener	66,547	20,955	1,326,657	111,628,750	18,929	491	1.19
Lakefield	2,006	. 691	. 30,775	2,947,980	579	424	1.04
Lambeth	1,678	566	36,581	2,629,689	526	417	1.39
Lanark	925	313	9,299	696,072	263	221	1.34
Lancaster	628	205	6,436	555,017	165	280	1.16
Larder Lake Twp	1,993	585	31,661	2,356,225	518	379	1.34
♦La Salle	*2,830	838	61,140	3,966,940	803	412	1.54
◆Latchford	440	156	4,333	215,592	146		
♦Leamington	8,648	3,121	113,583	9,177,844	2,871	266	1.24
♦Lindsay	10,321	3.656	197,376	17,067,343	3,371		
♦Listowel	3,530	1,424	69,895	5,908,774	1,272	387	1.18
London	99,115	31,455	1,516,189	115,645,889	28,222	341	1.31
♦London Twp	36,376	957	59,815	4,517,055	934	403	1.32
Long Branch	11,010	3,984	208,861	18,657,020	**3,815		
♠L'Orignal	1,078	329	15,523	786,396	311	211	1.97
Lucan	921	349	20,488	1,454,063	277	437	1.41
Lucknow	962	452	14,418	1,220,600	346	294	1.18
Lynden	532	172	9,954	796,905	152	437	1.25
Madoc	1,502	581	25,001	1,865,660	449	346	1.34
Magnetawan	251	100	3,928	138,490	77	150	2.84
Markdale	984	409	15,163	1,381,135	314	367	1.10
♦ Markham	3,991	1,250	85,267	6,629,050	1,102	501	1.29
Marmora	1,395	517	23,150	1,766,530	438	336	1.31
Martintown	415	121	5,187	295,920	97	254	1.75
♦ Massey	1,176	358	26,345	1,160,701	343		
†Matachewan Twp	817	223	9,278	648,744	178	304	1.43
†Matheson	859	292	17,113	1,436,289	231	518	1.19
♦†Mattawa	3,197	771	48,564	2,676,334	656		
Maxville	831	306	11,363	924,505	247	312	1.23

[†] Local system

[♦] New municipal resale rate structure

and with small commercial customers transferred to domestic billing

[§] Estimated

^{*} Included with Sandwich West Twp. effective January 1, 1959

Utilities and Local Systems AND CONSUMPTION

December 31, 1958

Revenue Consumption Cus- Here Consumption Cus- East Cus East East Cus East		G									
Revenue Consumption Cus- E E Cost Cost Cost Cost Consumption Cus- Cus	(Inc			aters)			Pow	ER SERVIC	Œ		
4,993 308,679 48 536 1,02 5,421 391,147 7 173 4,657 1,39 55,584 3,503,150 179 1,631 1.70 7,671 402,558 30 362 1,118 1.91 3,412 147,931 14 881 2.31 525 23,303 1 15 1,942 2.25 19,095 1,091,887 84 1,083 1.75 35,194 2,773,622 22 1,025 10,506 1.27 2,273 102,641 20 428 2.21 1 2,773,622 22 1,025 10,506 1.27 259,789 50,904,667 1,833 2,144 1,18 368,153 36,43,769 243 12,779 12,609 1.00 154,614 10,661,161 793 1,120 1.45 61,622 4,777,109 117 1,713 3,479 1.55 5,791 232,906 38 51,128 6,870 358,798	Revenue	Consumption	1	Monthly consumption per customer	erage cost per	Revenue	Consumption		Average of customers' monthly loads billed	Monthly consumption per customer	erage cost per
4.903 308,679 48 536 1.02 5,421 391,147 7 173 4,657 1.9 5,584 3,503,150 179 1,631 1.70 7,671 402,558 30 362 1,118 1.91 3,412 147,931 14 881 2.31 522 23,303 1 15 1,942 2.25 19,095 1,091,887 84 1,083 1.75 35,194 2,773,622 22 1,025 10,506 1.27 2,273 102,641 20 428 2.21 35,194 2,773,622 22 1,025 10,506 1.27 259,01 1,599,163 112 1,190 1.60 22,598 1,461,171 35 1,018 3,479 1.55 1,799 44,907 22 170 4.01 22,598 1,461,171 35 1,018 3,479 1.55 1,591 3,347 1,028,213 1,00 857 1,58 6,70 <td>\$</td> <td>kwh</td> <td>No.</td> <td>kwh</td> <td>¢</td> <td>\$</td> <td>kwh</td> <td>No.</td> <td>kw</td> <td>kwh</td> <td>é</td>	\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	é
2,212 93,590 10 780 2.36 878 36,600 1 18 3,050 2.40 59,84 3,503,150 179 1,631 1.70 7,671 402,585 30 362 1.118 1.91 10,005 916,139 105 727 1.82 26,218 1.892,084 16 807 9,855 1.99 2,273 102,641 20 428 2.21 35,194 2,735,622 22 1,055 1,050 1.27 590,789 50,904,067 1,833 2,314 1.18 368,153 36,437,69 243 12,779 12,669 1.00 1,799 44,907 22 170 4.01 22,598 1,461,171 35 1,018 3,479 1.55 154,614 10,661,161 793 1,120 1.45 61,622 4,777,109 117 1,713 3,402 1.29 1,277 1,232,206 38 511 2,277,73 120,303,831<	4,993	308,679	48	536	1.62	5,421	391,147	7	173	4,657	1.39
\$59,584 3,503,150 179 1,631 1.70 7,671 402,558 30 362 1,118 1,91 3,412 147,931 14 881 2,31 525 23,303 1 15 1,942 2,25 10,005 916,139 105 727 1.82 26,218 1,892,084 16 807 9,855 1.39 119,095 1,091,887 84 1,083 1.75 35,194 2,773,622 22 1,025 10,506 1.27 2,273 102,641 20 428 2,21 1.80 1.59 1.90 1.59 1.55 1.59 1.55 1.59 1.59 1.55 1.58 1.577,773 120,639,831 363 36,365 27,095 1.06 1.62 1.63 2.19 1.65 1.59 1.55 1.55 1.											
3.412 147,931 14 881 2.31 5.25 23,303 1 1.5 1.942 2.25 19,095 1,091,887 84 1,083 1.75 35,194 2,773,622 22 1.025 10,506 1.27 599,789 50,904,067 1,833 2,314 1.18 368,153 36,943,769 243 12,779 12,669 1.05 1,799 44,907 22 170 4.01 1.01 36,943,769 243 12,779 12,669 1.05 154,614 10,661,161 793 1,120 1.45 61,622 4,777,109 117 1,713 3,402 1.29 602,022 37,984,122 1,663 1,903 1.58 1,277,773 120,639,831 363 36,365 27,695 1.06 15,791 232,906 38 511 2.49 1,265 36,400 2 31 1,517 3.47 3,633 33,38,37 40 705 1.58 1.02 1,36 1,77,76 7,796 5 5 1,330 2.35					1.70						
16,705											
19,095											
2,273 102,641 20 428 2.21 .	10,705	310,107	100	, , ,	1.02	20,210	1,002,001	10	007	2,000	1.00
\$59,789						35,194	2,773,622	22	1,025	10,506	1.27
25,601 1,599,163 112 1,190 1.60 22,598 1,461,171 35 1,018 3,479 1.55 154,614 10,661,161 793 1,120 1.45 61,622 4,777,109 117 1,713 3,402 1.29 602,022 37,984,122 1,663 1,903 1.58 1,277,773 120,639,831 363 36,655 27,695 1.06 16,274 1,028,213 100 857 1.58 6,870 358,798 12 311 2,492 1.91 5,791 232,906 38 511 2.49 1,265 36,400 2 31 1,517 3.47 3,475 212,810 49 362 1,63 2,195 179,580 1 54 14,965 1,22 5,333 338,327 40 705 1,58 1 1,605 157,000 3 30 4,361 1,02 10,055 544,085 64 708 1,85 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>260 152</td><td>26 042 760</td><td>242</td><td>12.770</td><td>12.660</td><td>1.00</td></t<>						260 152	26 042 760	242	12.770	12.660	1.00
1,799 44,907 22 170 4.01											
154,614						22,390	1,401,171	33	1,018	3,419	
10,000	1,799	44,907	22	170	4.01						
662,022 37,984,122 1,663 1,903 1.58 1,277,773 120,639,831 363 36,365 27,695 1.06 16,274 1,028,213 100 857 1.58 6,870 358,798 12 311 2,492 1.91 5,791 232,906 38 511 2.49 1,265 36,400 2 311 1,517 3.47 3,475 212,810 49 362 1.63 2,195 179,580 1 54 14,965 1.22 5,333 338,327 40 705 1.58	154 614	10.661.161	793	1.120	1.45	61.622	4,777,109	117	1.713	3,402	1.29
16,274 1,028,213 100 857 1.58 6,870 358,798 12 311 2,492 1,91 5,791 232,996 38 511 2,49 1,265 36,400 2 31 1,517 3,47 3,475 212,810 49 362 1.63 2,195 179,580 1 54 14,965 1.22 5,333 338,327 40 705 1.58 <td></td> <td></td> <td></td> <td></td> <td>1.58</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>					1.58		1				
5,791 232,906 38 511 2.49 1,265 36,400 2 31 1,517 3.47 3,475 212,810 49 362 1.63 2,195 179,580 1 54 14,965 1.22 5,333 338,327 40 705 1.58											
3,475 212,810 49 362 1.63 2,195 179,580 1 54 14,965 1.22 5,333 338,327 40 705 1.58 .											
5,333 338,327 40 705 1.58									!		
10,088 544,085 64 708 1.85 1,605 157,000 3 30 4,361 1.02 9,667 503,305 30 1,398 1,92 1,876 79,796 5 58 1,330 2,35 2,789 153,856 9	3,473	212,010	49	302	1.00	2,193	179,500	1	34	14,703	1.24
9,667 503,305 30 1,398 1,92 1,876 79,796 5 58 1,330 2.35 2,789 153,856 9 1,776 70,416 1 64 57,022 3,609,841 182 1,653 1.58 408,944 11,368,399 68 2,981 13,932 0.96 78,676 4,890,912 199 114,762 12,915,153 86 3,460 1,916,758 120 1,331 1.67 41,320 2,777,901 32 1,315 7,234 1.49 868,871 63,469,066 2,808 1,884 1.37 1,218,129 140,295,075 425 41,021 27,509 0.87 5,936 3,467,166 17 1,695 1.72 8,808 857,364 6 261 11,908 1.03 1,03 1,03 1,03 1,03 1,03 1,03 1,03 1,03 1,03 1,03 1,03 1,03 1,0	5,333	338,327	40	705	1.58						
2,789 153,856 9 1,776 70,416 1 64 57,022 3,609,841 182 1,653 1.58 408,944 11,368,399 68 2,981 13,932 0.96 78,676 4,890,912 199 114,762 12,915,153 86 3,460 32,050 1,916,758 120 1,331 1.67 41,320 2,777,901 32 1,315 7,234 1.49 868,871 63,469,066 2,808 1,884 1.37 1,218,129 140,295,075 425 41,021 27,509 0.87 5,950 345,716 17 1,695 1.72 8,808 857,364 6 261 11,908 1.03 3,993 254,645 15 1,415 1.57 1,439 45,936 3 64 1,276 3.13 9,289 431,787 67 537 2.15 2,766 156,640 5 83 2,611 1,77 8,615 448,440 95 393	10,058	544,085	64	708	1.85	1,605	157,000	3	30	4,361	1.02
2,789 153,856 9 1,776 70,416 1 64 57,022 3,609,841 182 1,653 1.58 408,944 11,368,399 68 2,981 13,932 0.96 78,676 4,890,912 199 114,762 12,915,153 86 3,460 114,762 12,915,153 86 3,460 114,762 12,915,153 86 3,460 114,762 12,915,153 86 3,460 </td <td></td> <td></td> <td>30</td> <td>1,398</td> <td>1.92</td> <td>1,876</td> <td>79,796</td> <td>5</td> <td>58</td> <td>1,330</td> <td>2.35</td>			30	1,398	1.92	1,876	79,796	5	58	1,330	2.35
57,022 3,609,841 182 1,653 1.58 408,944 11,368,399 68 2,981 13,932 0.96 78,676 4,890,912 199			9			1,776	70,416	1	64		
32,050 1,916,758 120 1,331 1.67 41,320 2,777,901 32 1,315 7,234 1.49 868,871 63,469,066 2,808 1,884 1.37 1,218,129 140,295,075 425 41,021 27,509 0.87 5,950 345,716 17 1,695 1.72 8,808 857,364 6 261 11,908 1.03 3,993 254,645 15 1,415 1.57 1,439 45,936 3 64 1,276 3.13 9,289 431,787 67 537 2.15 2,766 156,640 5 83 2,611 1.77 8,615 448,440 95 393 1.92 8,092 383,015 11 241 2,902 2.11 2,373 121,995 18 565 1.95 2,097 45,5755 2 98 1,906 4.58 18,236 939,780 122 642 1.94 5,877 244,641 10 172 2,039 2.40 3,179 98,960 23 359 3.21			182	1,653	1.58	/108,944	11,368,399	68	2,981	13,932	0.96
32,050 1,916,758 120 1,331 1.67 41,320 2,777,901 32 1,315 7,234 1.49 868,871 63,469,066 2,808 1,884 1.37 1,218,129 140,295,075 425 41,021 27,509 0.87 5,950 345,716 17 1,695 1.72 8,808 857,364 6 261 11,908 1.03 3,993 254,645 15 1,415 1.57 1,439 45,936 3 64 1,276 3.13 9,289 431,787 67 537 2.15 2,766 156,640 5 83 2,611 1.77 8,615 448,440 95 393 1.92 8,092 383,015 11 241 2,902 2.11 2,373 121,995 18 565 1.95 2,097 45,5755 2 98 1,906 4.58 18,236 939,780 122 642 1.94 5,877 244,641 10 172 2,039 2.40 3,179 98,960 23 359 3.21							40.045.453	0.0	2.460		
868,871 63,469,066 2,808 1,884 1.37 1,218,129 140,295,075 425 41,021 27,509 0.87 5,950 345,716 17 1,695 1.72 8,808 857,364 6 261 11,908 1.03 3,993 254,645 15 1,415 1.57 1,439 45,936 3 64 1,276 3.13 9,289 431,787 67 537 2.15 2,766 156,640 5 83 2,611 1.77 8,615 448,440 95. 393 1,92 8,092 383,015 11 241 2,902 2.11 2,373 121,995 18 565 1.95 2,097 45,755 2 98 1,906 4.58 18,236 939,780 122 642 1.94 5,877 244,641 10 172 2,039 2.40 3,179 98,960 23 359 3.21					1						4.40
5,950 345,716 17 1,695 1.72 8,808 857,364 6 261 11,908 1.03 54,839 3,679,567 **126 71,059 6,269,761 43 2,400 3,993 254,645 15 1,415 1.57 1,439 45,936 3 64 1,276 3.13 9,289 431,787 67 537 2.15 2,766 156,640 5 83 2,611 1.77 8,615 448,440 95 393 1.92 8,092 383,015 11 241 2,902 2.11 2,373 121,995 18 565 1.95 2,097 45,755 2 98 1,906 4.58 18,236 939,780 122 642 1.94 5,877 244,641 10 172 2,039 2.40 3,179 98,960 23 359 3.21										1	
54,839 3,679,567 **126		1									1
3,993 254,645 15 1,415 1.57 1,439 45,936 3 64 1,276 3.13 9,289 431,787 67 537 2.15 2,766 156,640 5 83 2,611 1.77 8,615 448,440 95 393 1,92 8,092 383,015 11 241 2,902 2.11 2,373 121,995 18 565 1.95 2,097 45,755 2 98 1,906 4.58 18,236 939,780 122 642 1.94 5,877 244,641 10 172 2,039 2.40 3,179 98,960 23 359 3.21 <td></td> <td></td> <td></td> <td>1,695</td> <td>1.72</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				1,695	1.72						
9,289	54,839	3,679,567	**126			71,059	6,269,761	43	2,400		
9,289 431,787 67 537 2.15 2,766 156,640 5 83 2,611 1.77 8,615 448,440 95 393 1.92 8,092 383,015 11 241 2,902 2.11 2,373 121,995 18 565 1.95 2,097 45,755 2 98 1,906 4.58 18,236 939,780 122 642 1.94 5,877 244,641 10 172 2,039 2.40 3,179 98,960 23 359 3.21 <td>3.993</td> <td>254,645</td> <td>15</td> <td>1,415</td> <td>1.57</td> <td>1,439</td> <td>45,936</td> <td>3</td> <td>64</td> <td>1,276</td> <td>3,13</td>	3.993	254,645	15	1,415	1.57	1,439	45,936	3	64	1,276	3,13
8,615 448,440 95 393 1.92 8,092 383,015 11 241 2,902 2.11 2,373 121,995 18 565 1.95 2,097 45,755 2 98 1,906 4.58 18,236 939,780 122 642 1.94 5,877 244,641 10 172 2,039 2.40 3,179 98,960 23 359 3.21					1			5	83	2,611	1.77
2,373 121,995 18 565 1.95 2,097 45,755 2 98 1,906 4.58 18,236 939,780 122 642 1.94 5,877 244,641 10 172 2,039 2.40 3,179 98,960 23 359 3.21										2,902	2.11
18,236 939,780 122 642 1.94 5,877 244,641 10 172 2,039 2.40 3,179 98,960 23 359 3.21 <									98	1,906	4.58
11,272 676,000 87 648 1.67 2,240 127,730 8 87 1,331 1.75 27,268 1,548,240 125 1,032 1.76 14,913 756,829 23 536 2,742 1.97 15,149 776,350 75 863 1.95 2,290 131,600 4 66 2,742 1.74 3,063 114,785 23 416 2.67 722 12,300 1 33 1,025 5.87 8,085 274,903 10 1,785 85,677 5 38 5,473 224,634 45 416 2.44 <t< td=""><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></t<>		1									1
11,272 676,000 87 648 1.67 2,240 127,730 8 87 1,331 1.75 27,268 1,548,240 125 1,032 1.76 14,913 756,829 23 536 2,742 1.97 15,149 776,350 75 863 1.95 2,290 131,600 4 66 2,742 1.74 3,063 114,785 23 416 2.67 722 12,300 1 33 1,025 5.87 8,085 274,903 10 1,785 85,677 5 38 5,473 224,634 45 416 2.44 <t< td=""><td>3.179</td><td>98,960</td><td>23</td><td>359</td><td>3.21</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	3.179	98,960	23	359	3.21						
27,268 1,548,240 125 1,032 1.76 14,913 756,829 23 536 2,742 1.97 15,149 776,350 75 863 1.95 2,290 131,600 4 66 2,742 1.74 3,063 114,785 23 416 2.67 722 12,300 1 33 1,025 5.87 8,085 274,903 10 1,785 85,677 5 38 5,473 224,634 45 416 2.44 12,466 685,865 57 1,003 1.82 2,811 214,523 4 68 4,469 1.31 38,719 1,453,106 109 19,669 973,370 6 437 2,890 4,36						2,240	127,730	8	87	1,331	1.75
15,149 776,350 75 863 1.95 2,290 131,600 4 66 2,742 1.74 3,063 114,785 23 416 2.67 722 12,300 1 33 1,025 5.87 8,085 274,903 10 1,785 85,677 5 38 5,473 224,634 45 416 2.44 12,466 685,865 57 1,003 1.82 2,811 214,523 4 68 4,469 1.31 38,719 1,453,106 109 19,669 973,370 6 437		1								2,742	1.97
3,063 114,785 23 416 2.67 722 12,300 1 33 1,025 5.87 8,085 274,903 10 1,785 85,677 5 38 5,473 224,634 45 416 2.44 </td <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,742</td> <td>1.74</td>		1								2,742	1.74
5,473 224,634 45 416 2.44											
5,473 224,634 45 416 2.44	8.085	274,903	10			1,785	85,677	5	38		
12,466 685,865 57 1,003 1.82 2,811 214,523 4 68 4,469 1.31 38,719 1,453,106 109 19,669 973,370 6 437					2.44						
38,719 1,453,106 109 19,669 973,370 6 437						2,811			1		1.31
420 2 200 4 26			1			19,669	973,370		1		
	7,158		1		2.13	4,532	104,000	3	120	2,889	4.36

^{**} Small commercial customers transferred to domestic billing

			(Inc	Domestic		eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	é
McGarry	3,007	499	34,175	2,735,400	432	528	1.25
Meaford	3,640	1,481	62,052	5,650,852	1,256	375	1.10
Merlin	524	247	6,825	479,459	181	221	1.42
Merrickville	882	350	14,749	998,660	297	280	1.48
Merritton	5,842	1,798	93,667	7,792,680	1,622	400	1.20
≜ Midland	8,348	2,776	122,227	12,875,980	2,581	416	0.95
♠Midland	844	306	11,568	1,053,550	233	377	1.10
Millbrook	805	317	15,535	1,161,155	253	382	1.34
♦Milton	4,915	1,633	110,503	8,223,984	1,504		
Milverton	1,082	457	21,927	1,454,752	349	347	1.51
♠Mimico	14,338	5,638	255.747	24.974.820	5.400	385	1.02
◆Mitchell.	2,174	873	48,151	3,509,100	785		
◆ Moorefield	309	127	4.196	358,790	113		
Morrisburg	2,003	750	39,530	3,609,230	620	485	1.10
♦ Mount Brydges	901	. 336	11,953	792,901	314	210	1.51
♠Mount Forest	2,414	948	45,419	3,962,760	854	387	1.15
Napanee	4,473	1,655	81,332	7,749,771	1,362	474	1.05
♦Neustadt	495	201	5,716	561,450	183	256	1.02
Newboro	296	138	5,087	238,377	120	166	2.13
Newburgh	565	. 183	. 8,974	558,920	156	299	1.61
Newbury	342	132	4,417	260,940	110	198	1.69
Newcastle	1,134	450	18,220	1,637,695	372	367	1.11
New Hamburg	2,030	687	37,469	2,918,475	553	440	1.28
♦†New Liskeard	4,462	1,546	97,637	7,485,494	1,381	452	1.30
Newmarket	7,629	2,513	144,149	13,500,070	2,159	521	1.07
♦New Toronto	10,646	3,768	202,670	17,798,834	3,476	427	1.14
Niagara	2,713	1,057	67,949	6,234,861	918	566	1.09
♦Niagara Falls	23,858	7,506	388,416	32,021,134	6,904	387	1.21
Nipigon Twp	2,682	711	37,058	3,324,050	589	470	1.11
North Bay	22,552	6,983	419,584	37,274,383	5,845	531	1.13
North York Twp	197,546	66,807	4,587,300	405,993,963	61,207	553	1.13
Norwich	1,638	669	35,003	2,703,773	. 552	408	1.29
Norwood	1,048	412	17,033	1,287,720	327	328	1.32
Oakville	10,156	3,486	182,763	13,746,595	2,840	403	1.33
Oil Springs	. 482	224	5,253	357,077	150	1,98	1.47
Omemee	838	297	12,882	1,009,330	254	331	1.28
♦Orangeville	4,522	1,616	88,137	7,499,650	1,457	. 429	1.18
Orillia	14,088	5,083	233,312	23,760,517	4,306	460	0.98
Orono	806	348	16,563	1,153,471	300	320	1.44
♦Oshawa	54,896	17,651	846,743	103,974,318	15,988	542	0.81

Local system

[♦] New municipal resale rate structure with small commercial customers transferred to domestic billing

Utilities and Local Systems AND CONSUMPTION December 31, 1958

	COMMERCIA					Pow	ER SERVIC	·F		
(Inc	luding flat-rat	e water-he	eaters)			100	LA SERVIC	, 17		
, Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
14,527	782,857	63	1,036	1.86	2,420	180,110	4	50		1.34
29,237	1,960,480	193	846	1.49	33,536		32	1,030		1.51
7,353	411,437	62	553	1.79	2,488		4	75	1,655	3.13
4,558	231,080	47	410	2.02	3,554		6	128		1.22
33,947	1,751,000	147	993	1.94			29		207,832	0.75
33,711	1,751,000	111	,,,,	1.71	040,200	72,020,440	27	11,100	207,032	0.75
44,790	3,576,264	135	2,208	1.25	128,300	13,192,682	60	5,854	18,323	0.97
6,051	325,590	65	417	1.86	3,731	238,370	8	121	2,483	1.57
7,653	250,816	62	337	3.05	770		2	16	1,448	2.22
36,440	1,729,699	96			92,941	7,180,035	33	2,379		
14,300	576,039	92	522	2.48			16	371	3,233	1.90
73,796	5,453,184	168	2,705	1.35	64,665	5,059,577	70	2,259	6,023	1.28
20,563	869,942	64			27,986	1,948,071	24	731		
2,778	158,155	12			. 1,474	69,750	2	49		
23,029	1,258,196	1:17	896	1.83	10,924	696,095	13	386	4,462	1.57
3,223	146,170	19	641	2.20	2,678	125,700	3	114	3,492	2.13
19,041	1,242,680	67	1,546	1.53	14,666		27	507	3,023	1.50
55,789	3,303,357	263	1,047	1.69	31,952	2,726,828	30	1,202	7,575	1.17
1,225	73,210	16	381	1.67	2,041	148,440	2	91	6,185	1.38
1,782	60,420	. 18	280	2.95						
3,464	129,860	24	451	2.67	3,335	172,300	3	95	4,786	1.94
	c#		2.50	2.05	240			4.0	406	4.88
1,386	67,610	21	268	2.05	249	5,110	1	12	426	1.32
11,808	720,750	67	896	1.64	9,779		11	275	5,633	
16,308	810,118	116	582	2.01	19,698	1,250,904	18	547	5,791	1.57
54,172	3,237,929	129	2,092	1.67	47,329	3,277,848	36	1,171	7,588	1.44
89,883	5,766,496	304	1,581	1.56	58,044	4,575,505	50	1,889	7,626	1.27
84,351	6,320,887	207	2,545	1.33	733,171	93,247,477	85	21,585	91,419	0.79
23,416	1,330,584	124	894	1.76	6,327	303,232	15	242	1,685	2.09
302,761	24,385,042	547	3,715	1.24	237,822	23,854,910	55	7,375	36,144	1.00
27,176	2,100,055	112.	1,563	1.29	11,011	1,158,698	10	358	9,656	0.95
247,912	18,389,518	1,011	1,516	1.35	128,046		127	3,839	7,139	1.18
211,712	10,000,010	-,0	-,		,					
1,758,586	104,528,975	4,719	1,846	1.68	1,287,499	124,117,049	881	42,027	11,740	1.04
15,225	717,687	106	564	2.12	5,405	273,480	11	175	2,072	1.98
9,502	407,675	80	425	2.33	5,218	201,070	5	166	3,351	2.60
148,563	7,927,638	. 543	1,217	1.87	172,124	17,276,645	103	5,555	13,978	1.00
2,801	110,432	40	230	2.54	6,812	626,315	34	142	1,535	1.09
								0.0	g mme	1.55
4,557	178,287	38	391	2.56	3,549	226,548	5	83	3,776	1.57
30,874	1,983,888	118	1,401	1.56	16,097	1,006,215	41	772	2,045	1.60
140,781	10,774,537	648	1,386	1.31	277,416	27,480,084	129	10,910	17,752	1.01
5,999	278,226	45	515	2.16	2,327	90,926	3	67	2,526	2.56
340,473	28,227,664	1,420	1,657	1.21	1,148,928	144,062,720	243	36,963	49,404	0.80

				Domestic			
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus-	Monthly consumption ger customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
♦Ottawa (including Eastview and	0.00 440	00 504	2 002 040	F02 F07 000	70.160	500	0.70
Rockcliffe Park)	258,443	80,521 276	3,923,818 12,087	503,587,808 996,078	70,169 224	598 371	0.78
Otterville	704 17,506	5,987	306,995	28,531,519	5.559	428	1.08
♦Owen Sound	770	3,987	12,362	929,390	248	312	1.33
Palmerston	1,555	607	27,655	2,518,468	493	426	1.10
			0.4 70.4	6.064.600	4 672	247	4.26
Paris	5,655	1,933	94,704	6,964,602	1,673	347	1.36
♦Parkhill	1,007	490 1,954	24,062	1,734,016 8,085,227	439 1,655	329 407	1.39
Parry Sound	5,867 4,658	1,365	88,397 59,564	5,178,838	1,180	366	1.15
Penetanguishene	5,408	1,932	80,357	7,772,456	1,607	403	1.03
Perth	3,400	1,952	60,337	7,772,430	1,007	403	1.03
Peterborough	44,720	14,202	829,567	85,604,987	12,597	566	0.97
Petrolia	3,566	1,245	43,334	2,572,077	1,037	207	1.68
♦Pickering ■	1,606	478	14,934	1,030,740	447		
†Pickle Lake Landing Townsite	§140	84	4,411	225,888	61	309	1.95
♦Picton	4,976	1,906	95,596	8,616,900	1,573	457	1.11
♦Plattsville	478	188	9.358	704,441	175		
♦Point Edward	2,760	813	26,827	2,181,700	746	244	1.23
Port Arthur	40,250	12,818	660,399	78,363,720	11,211	582	0.84
♦Port Burwell	722	439	16,710	597,128	412	121	2.80
♦†Port Carling	*480	495	22,428	1,121,873	426		
Port Colborne	14,750	4,570	178,863	13,652,750	3,982	286	1.31
Port Credit	6,350	2,596	144,795	12,183,261	2,248	452	1.19
♦Port Dalhousie	3,383	1,113	90,962	6,609,820	1,054	523	1.38
Port Dover	2,848	1,447	43,296	3,075,731	1,217	211	1.41
Port Elgin	1,719	1,035	43,825	2,879,927	852	282	1.52
♦Port Hope	7.690	2,740	172,695	14,690,299	2,555	479	1.18
Port McNicoll.	997	464	15,028	1,090,451	432	210	
♦Port Perry.	2,212	805	41,856	3,600,450	757	396	1.16
Port Rowan	793		8,104	479,210	253	158	
◆Port Stanley	*1,415	1,138	43,714	3,259,488	1,076	252	1.34
♦†Powassan	978	324	19,943	1,459,794	306		
♦ Prescott	5,373		87,714	8,696,692	1,599		1.01
Preston	10,593		186,721	13,574,680	2,735		
♦Priceville	163		2,425	95,680	56		
Princeton	428		7,815	661,947	130		1.18
Queenston	425	152	10,485	1,009,006	136	618	1.04
♦‡Rainy River	1,290		15,538		419		1.04
†Red Lake Townsite.	1,290		48,572	2,673,589	715		1.82
Red Rock	1,885		22,281	2,185,384	301	605	1.02
♦Renfrew	8,500						

[†] Local system

[♦] New municipal resale rate structure

and with small commercial customers transferred to domestic billing

^{‡ 5} months' operation

^{■ 6} months' operation

^{*} Excluding summer population

[§] Estimated

Utilities and Local Systems AND CONSUMPTION

December 31, 1958

	Commercia					Pow	ER SERVI	TE .		
(Inc	luding flat-rat	e water-he	eaters)							
, Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
4,209,585	339,344,940	10,143	2,788	1.24	583,235	50,707,385	209	20,243	20,218	1,15
4,246	214,197	44	406	1.98	2,359		8		1,158	
115,543	8,361,793	296	2,354	1.38	136,766		132	5,556		
7,014	342,700	64	446	2.05	3,314	207,530	9	88		
12,255	757,196	96	657	1.62	12,427	1,020,225	18	500	4,723	1.22
29,635	1,952,385	220	740		52,626		40	2,117	9,041	1.21
10,507	541,803	39	1,158		6,427	374,976	12	214		1.71
53,088	2,892,761	278	867	1.84	15,044		21	525		1.38
27,160	1,746,474	165	882	1.56			20	1,303		1.04
39,711	2,851,380	275	864	1.39	36,748	3,254,790	50	1,607	5,425	1.13
387,729	24,462,789	1,368	1,490	1.58	: 563,703	69,676,468	237	19,063	24,499	0.81
29,082	1,339,205	170	656	2.17	37,408		38		3,566	
2,884	194,856	28			1,911	180,810	3	153		
2,135	72,530	23	263	2.94	194			13		
53,096	3,559,597	289	1,026	1.49	18,693	1,895,471	44	803	3,590	0.99
1,697	65,074	11			16,843		. 2	441		
10,524	691,300	45	1,280	1.52	109,762		22	3,493		1.24
339,193	31,207,007	1,435	1,812	1.09	578,282		172	25,015		0.90
4,014 13,873	170,982 526,916	24 64	594	2.35	698 1,146	7,160 77,970	3 5	50 43		9.75
96,609	5,235,761		852	1.85	74,640		76	2,507		1.22
67,456	4,069,161	301	1,127	1.66	292,069		47	6,524		0.69
9,897 25,475	579,678 1,580,736	198	1,123 665	1.71 1.61	13,375 38,502	725,573 3,415,732	16 32	342 1,349	3,779 8,895	1.84
25,475	996,758	168	494	2.19	12,733	646,394	15	355		1.13
21,030	770,730	100	771	2.17	12,700	010,071	10	000	0,071	2,,,,
52,487	3,201,293	138	1,933	1.64	178,199	17,015,871	47	4,465	30,170	1.05
3,042	142,410	30	396	2.14	32,062	1,662,700	2	913	69,279	1.93
9,493	622,925	37	1,403	1.52	5,105	372,063	11	185	2,819	1.37
8,124	405,870	73	463	2.00	1,054	25,081	5	33	418	4.20
9,698	583,392	46	1,057	1.66	8,334	401,915	16	373	2,093	2.07
10,114	462,483	15			864	24,066	3	28		
24,613	1,652,235	82	1,679	1.49	38,383	3,248,677	39	1,437	6,942	1.18
58,570	3,100,358	294	879	1.89	228,353	17,261,570	99	7,242	14,530	1.32
861	33,125	8	242	2.10	4 500	£7 70E	3	59	1,605	2.64
2,757	131,470	* 35	313	2.10	1,527	57,785	3	39	1,005	2.04
5,580	339,445	16	1,768	1.64						
4,878	154,858	25			1,734	88,682	7	90	4 224	0.22
46,850	2,138,970	181	985	2.19	8,432	364,040	7 2	195 41	4,334 6,809	2.32 0.86
16,053	1,037,062	26 306	3,324	1.55 1.48	1,401 81,303	163,410 6,454,116	65	3,004	8,275	1.26
55,333	3,734.222	300	1,017	1.48	01,303	0,434,110	03	3,004	0,273	1.20

			(Inc	Domestic		eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
Richmond	916	277	16,635	1,204,402	250	401	1.38
⊗Richmond Hill	14,191	4,190	295,120	20,979,259	3,850	454	1.41
Ridgetown	2,468	1,004	28,313	1,905,524	815	195	1.49
♦Ripley	448	215	9,941	725,710	195	310	1.37
♦Riverside	15,559	4,953	252,982	17,533,838	4,814	304	1.44
	2.042	679	35,223	2,278,721	651		
◆Rockland	2,842 860		16,694		1	392	1.44
Rockwood	1.025		11,047			200	
Rodney	207	1	3,867		106		
Rosseau	562	1	8,166				
* Russell							
St. Catharines	41,156	13,663	738,629				1.24
♦St. Clair Beach	1,125		28,791				
St. George	732		9,210	1		315	}
St. Jacobs	722		11,802		182	444	
♦St. Mary's	4,266	1,594	93,130	7,710,361	1,453	442	1.21
St. Thomas	19,503	6,870	348,908	27,096,449	6,055	373	1.29
Sandwich East Twp	21,289	5,965	345,911	15,411,175	5,747	223	2.24
Sandwich West Twp	22,074	6,435	454,169	23,217,182	6,116	316	1.96
♦Sarnia	46,913	14,319	646,917				
Scarborough Twp	168,281	54,338	3,796,172	294,113,177	50,632	484	1.29
Schreiber Twp	2,042	617	32,730	3,484,805	578		
Seaforth	2,202		38,394	3,192,580	717		
Shelburne	1,274	551	24,962	1,786,565	432	345	1.40
Simcoe	8,279	3,113	107,640	9,065,932	2,517	300	1.19
Sioux Lookout	2,311	927	64,311	4,327,619	783	461	1.49
Smith's Falls	8.917	3,252	151,941	15,758,092	2,788	471	0.90
Smith s Falls	825						
Southampton	1,777					1	1
†South Porcupine Townsite	§5,600	1	79,903		1		
Springfield	551		7,258			325	1.20
G1	28,476	8.587	538,562	45,285,717	8.013	471	1.1
Stamford Twp	1.539					1	
Stayner	1,306			1			1
Stirling	5,859	1					1
Stouffville	2,652	1			1		
				24.048.02		4.55	
Stratford	20,532					1	
Strathroy	4,719						
Streetsville	3,760						
						1	1
♦Sturgeon Falls	6,213	1,541	81,778	5,827,915	1,434	339	

[†] Local system

[♦] New municipal resale rate structure

and with small commercial customers transferred to domestic billing

[§] Estimated

Utilities and Local Systems AND CONSUMPTION December 31, 1958

(Inc	Commercial		eaters)			Pow	ER SERVIC	Œ		
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
3,479	149,070	25	497	2.33	3,119	201,000	2	65	8,375	1.55
68,411	3,904,297	291	1,118	1.75	65,610	4,938,715	49	1,706	8,399	1.33
25,855		160	727	1.85	24,371	1,353,630	29	775	3,890	1.80
2,691	147,750	17	724	1.82	2,064	134,625	3	62	3,740	1.53
34,796		110	1,679	1.57	26,319	1,392,590	29	1,071	4,002	1.89
11,495	526,188	25			1,639		3	56		
5,331	235,850	46	427	2.26	1,841	80,240	3	46	2,229	2.29
7,005	392,297	71	460		7,106	269,989	11	246	2,045	2.63
2,070		15	446							
2,071	132,330	14	788	1.57	632	38,420	3	35	1,067	1.65
	05 000 404	4 552	4 242	1.71	1,044,722	105,911,502	264	30,179	33,432	0.99
428,394		1,553	1,343	1.71	2,225		5			
5,868	1	47	710	1.45	6,592		6		1	1.50
5,890		42	718 605		1	239,700	9			2.41
6,265		93	1				48			
22,003	1,330,280	93	1,210	1.03	240,941	30,001,373	10	0,100	00,550	0.00
159,833	11,457,980	713	1,339	1.39	254,797	27,362,830	102	8,394	22,355	0.93
66,185		157			110,079	5,246,753	61	2,496	7,168	2.10
126,096	1	270	1,909	2.04	99,063	5,555,803	49	2,151	9,449	
301,608		773	2,244	1.45	1,309,477	191,239,206	150		106,244	0.68
1,016,846	61,426,153	3,174	1,613	1.66	1,461,202	141,962,865	532	42,237	22,237	1.03
	024 420	26			2 011	426,860	3	111		
10,869					3,911 18,509		18			
22,249		75 107		1.93		1			1	2.00
14,788							89		1 '	
100,814 31,137		126		1	1			1		1.20
31,137	1,170,207	120	117	2.01	1			*		
73,876	5,567,562	409	1,134	1.33	63,220	5,666,339	55	2,405	8,585	1.12
9,140							14	1		
16,547		i	1	1			15	477	5,402	
32,696							40			
2,576				1.86	2,378	64,476	3	93	1,791	3.69
							-	4 0 111	14 300	1.00
168,254										
14,239				1				1		
11,400										1
28,812							19	1	1	
24,561	1,376,449	123	933	1.78	11,046	522,413	13	330	3,349	2.11
450.00	10 177 050	624	1,359	1.57	216,731	20,083,099	147	7,365	11,385	1.08
159,901					1					
40,818							1		1	1
23,730							1			
34,597 503,124								1		1.28
.505,124	27,401,423	1,372	1,002			,,				

				Domestic			
			(In	cluding flat-rat	te water-h	eaters)	
.Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
Sunderland	575	252 293	10,804 12,944	846,300 715,820	203 231	347 258	1.28
Sundridge	753	866	29,583	2,321,323	709		1.81
Sutton	1,395	3,233	184,084		2,989		
♦Swansea	8,972 496	233	8,987	703,450			
◈Tara	490	255	0,901	703,430	212		
Tavistock	1,169	495	26,789	2,027,400	385	439	1.32
◆Tecumseh	4,401	1,318	57,078	3,489,961	1,258	1	1.64
◆Teeswater	856	339	13,480	1,147,098	305	Į.	1.18
◆Terrace Bay	1,820	412	31,893	4,256,656	385	. 921	0.75
Thamesford	771	313	20,523	1,312,140	260	421	1.56
♦Thamesville	1,020	436	14,845	929,241	387	200	1.60
Thedford	723	296	11,309	828,098	229	301	1.37
♦Thessalon	1,742	511	26,893	1,413,344	426		1.90
Thornbury	1,112	512	21,362	1,348,185	407	276	1.58
◆Thorndale	428	133	8,792	569,589	124	383	1.54
†Thornloe	188	35	1,961	120,155	24	417	1.63
Thornton	295	100	4.862	347,670	89	326	1.40
Thorold	8,272	2,524	121,341	10,328,650	2,250	383	1.17
♦Tilbury	2,944	1,005	34,646	2,148,236	898	199	1.61
Tillsonburg	6,370	2,402	101,915	7,175,831	1,939	308	1.42
							1
†Timmins (including Schumacher)	§31,025	9,356	500,536	37,343,366	8,047	387	1.34
Toronto (including Leaside)	662,401	204,294	11,461,317	917,181,240	170,167	449	1.25
Toronto Twp	53,219	14,042	997,262	82,971,098	13,035 213	530	1.20
Tottenham	732 25,107	272 5,588	12,454 509,470	1,043,380 35,038,611	5,467	408	1.19
◆ Tranaigar Twp	25,107	3,300	309,470	33,036,011	3,407		
Trenton	12,105	3.894	172,839	21,513,921	3,427	523	0.80
♦ Tweed	1,642	602	21,447	2,490,950	541	384	0.86
♦Uxbridge	2,236	845	39,491	3,687,863	761	404	1.07
Vankleek Hill	1,670	529	23,877	1,262,511	449	234	1.89
Victoria Harbour	951	462	15,918	875,385	422	173	1.82
AWallsonton	2 717	4.050	56,748	4,788,665	1,147		
♦Walkerton ♦Wallaceburg	3,717 7,997	1,258 2,742	85,406	6,184,591	2.453		
Wardsville	330	135	4,410	314,721	106	247	1.40
Warkworth	527	237	8,876	587,680	183	268	1.51
♦Wasaga Beach	*440	981	26,276	990,200	776	106	2.65
			0.00	2.000.000	10-		,
Waterdown	1,828	576	37,631	3,070,861	489	523	1.23
♦ Waterford	2,040	755	33,299	2,408,207	727	276	1.38
Waterloo	18,317	5,758 523	360,294 22,892	33,467,941 1,775,486	5,233 409	533	1.08
Watford Waubaushene	1,210 § 1,200	523 428	12,910	694,650	393	362 147	1.29
waubausnene	81,200	428	12,910	094,050	, 393	14/	1.80

[†] Local system

[♦] New municipal resale rate structure

and with small commercial customers transferred to domestic billing

^{*} Excluding summer population

[§] Estimated

Utilities and Local Systems AND CONSUMPTION

December 31, 1958

(Inc	Commercial					Pow	ER SERVIC	Œ		
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	s	kwh	No.	kw	kwh	¢
5,220	241,115	45	447	2.16	4,494	207,070	4	98	4,314	2.17
9,674	339,615	59	480	2.85	1,500	53,860	3	35	1,496	2.79
20,026	1,130,299	146	645	1.77	5,407	299,938	11	171	2,272	1.80
46,974	3,208,194	196	010		61,618	6,384,789	48	2,010		
2,979	147,400	14			2,356	168,264	7	70		
2,717	117,100	* *			2,000					
10,119	479,529	102	392	2.11	10,860	541,585	8	335	5,642	2.01
12 035	689,674	46	1,249	1.74	7,788	523,873	14	264	3,118	1.49
4,550	270,036	27	833	1.68	9,861	826,058	7	298		1.19
14,018	1,213,716	25	4,046	1.15	6,439	622,000	2	196		1.04
8,539	380,688	48	661	2.24	5,441	293,241	5	130		1.86
0,007	000,000				2,222					
7,292	396,580	32	1,033	1.84	16,331	772,937	17	504	3,789	2.11
6,693	314,091	62	422	2.13	3,247	295,217	5	78	4,920	1.10
18,912	806,515	78	862	2.34	2,401	216,417	7	59	2,576	1.11
10,128	426,700	88	404	2.37	9,632	618,860	17	386	3,034	1.56
818	32,340	6	449	2.53	2,226	77,244	3	63	2,146	2.88
1,354	54,760	11	415	2.47						
1,049	39,711	11	301	2.64						
44,580	2,673,789	233	956	1.67	314,650	44,759,844	41	8,584	90,975	0.70
23,384	1,349,900	84	1,339	1.73	22,075	904,015	23	873	3,275	2.44
98,563	5,345,375	414			62,199	4,896,938	49	1,835	8,328	1.27
,	. ,									
233,941	14,923,392	1,165	1,067	1.57	57,618	2,814,872	144	1,358		2.05
9,036,649	608,792,670	. 27,592	1,839	1.48	13,502,227	1,329,533,505	6,535	368,450		1.02
296,615	19,849,908	874	1,893	1.49	1,407,891	175,328,890	133	32,572		0.80
4,733	230,809	53	363	2.05	2,417	164,721	6	67	2,288	1.47
61,924	2,533,365	78			183,910	15,663,064	43	4,237		
							. 04	40.400	47 0 42	0.65
77,255		383		1.10	312,949		84	10,192		
8,250		46			6,373	623,300	15	298		1.02
11,746		61	1,013		20,556	1,008,411	23	736		
11,660		71	469		3,820		9	148		4.12
3,552	152,695	39	326	2.33	332	28,000	1	6	2,333	1.19
	4 22 200	0.0			28,605	2,307,353	19	915		
29,799		92 199			271,969		90	7,716		
59,503				1.89	271,909	29,400,078	1	7,710		
4,267	225,271	29 54								
4,632					994	44,000	1	25	3,667	2.26
22,303	914,870	204	374	2.77	,,,,	11,000				
10,497	543,039	70	646	1.93	4,139	242,880	17	150		1.70
7,913	1	1		1.91	9,294	425,460	10			
126,305		420			236,523	20,478,991	105			
13,827			1			1,326,991	12	604		
3,186			389	2.13	2,806	105,401	3	68	2,928	2.66

			(Inc	Domestic		eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
Webbwood	540	140	8,772	295,465	115	214	2.97
Welland	17,559	5,269	179,339	14,737,728	4,515	272	1.22
Wellesley	677	274	13,006	908,173	217	349	1.43
♦Wellington	1,009	530	15,774	1,584,084	491	269	1.00
West Ferris Twp	4,307	1,624	104,672	6,488,531	1,453	372	1.61
West Lorne	1,078	418	14,886	969,035	327	247	1.54
Weston	9,485	3,263	188,550			498	1.12
Westport	710	285	10,383			312	1.24
Wheatley	1,250		17,530	, ,	374	253	1.54
Whitby	10,543	3,529	176,202	16,271,129	3,158	429	1.08
♦†White River	401	193	8,154				
♦Wiarton	1,953		30,296			352	
Williamsburg	340		4,310	,			
Winchester	1,348		22,152			343	1.24
Windermere	*129	119	5,153	244,956	104	196	2.10
♦Windsor	119,319	37,057	1,404,477	124,367,652	34.199	303	1.13
♦Wingham	2,677	1,019	50,598	1			
Woodbridge	2,129	748	47,763		622	534	1,20
♦Woodstock	18,852	6,429	387,481	31,341,545	5,947	439	1.24
Woodville	409	187	7,703	483,660		271	1.59
♦Wyoming	813	318	8,720	531,760	256	173	1.64
♦York Twp	119,966	38,872	1,944,115	204,934,612	37,390	457	0.95
Zurich	624	287	12,746	857,240	230	311	1.49

[†] Local system, 9 months' operation

New municipal resale rate structure with small commercial customers transferred to domestic billing

^{*} Excluding summer population

Utilities and Local Systems AND CONSUMPTION December 31, 1958

(IIIC.	luding flat-rate	L SERVICE e water-he				Pow	ER SERVIC	Œ		
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	é
5,604	167,620	23	607	3.34	841	45,280	2	23		1.86
149,542	9,537,458	620	1.282	1.57	342,780		134	10,299		
5,445	265,693	50	443		2,485	111,720	7	79		
3,413	225,330	20	939		4,887	247,500	19	245		
44,846	2,136,599	161	1,106					638	.,	
41,010	2,100,077	101	1,100	2110	21,222	0,007,010		000	20,127	0.00
11,148	496,013	78	530	2.25	27,361	1,853,045	13	649	11.878	1.48
123,998	8,279,076	359	1,922	1.50	133,069	12,755,717	75	4,270	14,173	1.04
8,282	413,711	61	565	2.00	55	680	1	8	57	8.02
17,468	810,095	82	823	2.16	14,840	695,320	15	443	3,863	2.13
66,409	4,054,991	319	1,059	1.64	213,715	23,229,000	52	6,077	37,226	0.92
5,588	297,088	15								
14,808	963,591	62				812,830	16	359		
3,763	257,080	42				1	1	6		
13,766	859,071	93				1,614,260	9	440	14,947	1.05
3,672	131,040	15	728	2.80						
					4 000 0 0 0	4 6 2 0 2 2 2 2 2	250	C4 70 4	40.004	4.40
775,311	58,314,145			1.33			750			1.12
20,809	1,268,850		1	4.04	35,872			1		4.07
19,720	1,032,975		776							
129,837	8,516,649	347								
3,227	120,216	36	278	2.68	1,369	39,890	2	41	1,662	3.43
5,716	309,547	55	469	1.85	9,667	299,440	. 7	254	3,565	3.23
405,922		1,052					430	20,881	11,567	0.97
7,201	292,136									

LIST OF ABBREVIATIONS

acsr	—aluminum conductor steel-reinforced	min —minimum —minute (20-min)
cfs	—cubic feet per second	mm. —millimetre
G.S.	—Generating Station	
hp	horsepower	N.O.P.—Northern Ontario Properties
Jct. kv	—Junction	NPD —Nuclear Power Demonstration
kv ·	kilovolt(s)	psi —pounds per square inch
	-kilovolt-ampere(s)	R.O.A.—Rural Operating Area
kvar	—kilovar(s)	rpm —revolutions per minute
kw	-kilowatt(s)	S.O.S. —Southern Ontario System
kwh	-kilowatt-hour(s)	S.S. —Switching Station
mcm	—thousand circular mils	T.S. —Transformer Station
M.E.U	J.—Municipal Electrical Utilities	Twp. —Township
		V.A. —Voted Area

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m Statement}$ "C"—Rates and Typical Bills for Electrical Service in Municipal Electrical Utilities and Local Systems

D = Statement "D"—Customers, Revenue, and Consumption in Municipal Electrical Utilities and Local Systems

L = Statement of Loads of Municipal Electrical Utilities and Local Systems

P =Statement of the Allocation of the Cost of Power

S =Statement of Sinking Fund Equity

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ROYAL VISIT TO ST. LAWRENCE POWER PROJECT

Her Majesty Queen Elizabeth II signs the book commemorating the visit Her Majesty and His Royal Highness the Prince Philip made to the St. Lawrence Power Project on June 27, 1959. Looking on at the right is Mr. James S. Duncan, while immediately behind Her Majesty is the Honourable Richard M. Nixon, Vice-President of the United States.





The Hydro-Electric Power Commission of Ontario

Fifty-second

Annual Report

for the Year

1959

This Report is published pursuant to The Power Commission Act, Revised Statutes of Ontario, 1950, Chapter 281, Section 9.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO December 1959

James S. Duncan, C.M.G., LL.D. Chairman

W. Ross Strike, Q.C. 1st Vice-Chairman

Hon. Robert W. Macaulay, Q.C., M.L.A. 2nd Vice-Chairman

Lt.-Col. A. A. Kennedy, D.S.O., E.D. Commissioner

D. P. CLIFF Commissioner

A. W. Manby, B.Sc. General Manager

Otto Holden, B.A.Sc., C.E., D.Eng. Chief Engineer

Ernest B. Easson, B.Com. Secretary

LETTER OF TRANSMITTAL

TORONTO, ONTARIO, JULY 4, 1960

THE HONOURABLE JOHN KEILLER MACKAY, D.S.O., V.D., LL.D.

Lieutenant-Governor of Ontario

SIR:

I have the honour to present the Annual Report of The Hydro-Electric Power Commission of Ontario for the year ended December 31, 1959.

It was a year of more than usual significance as two remarkable projects were brought to completion in 1959—the program of construction at the St. Lawrence Power Project, which has been a subject of international interest for more than half a century, and the standardization of frequency in the Province at 60 cycles per second, one of the largest operations of its kind ever undertaken. The importance of the St. Lawrence Power Project as an outstanding example of achievement through international co-operation and goodwill was most appropriately marked on June 27 by the visit of Her Majesty Queen Elizabeth II and His Royal Highness the Prince Philip. In the presence of the Honourable Richard M. Nixon, Vice-President of the United States, and a large gathering of distinguished visitors Her Majesty unveiled at the International Boundary an inscription commemorating the international aspect of this project. In that

same month the Commission announced that it would co-operate with Atomic Energy of Canada Limited in the construction and operation of a 200,000-kilowatt nuclear-electric station at Douglas Point on the shore of Lake Huron between Kincardine and Port Elgin. The first two events mark the close of an interesting and colourful period in the Commission's history; the third foreshadows important future developments that will undoubtedly take place in a challenging but still relatively uncharted field of power generation.

The economic recovery that became apparent late in 1958 continued through 1959. The Commission was required by its customers to supply 8.1 per cent more power in December 1959 than in December 1958. The growth in primary power demands to a new maximum of 5,556,500 kilowatts was more than matched by the record amount of power made available by new generating units brought into service during the year.

Gross revenues from the sale of primary power in 1959 amounted to \$214,680,399, which exceeded comparable revenues in 1958 by 8.3 per cent. The cost of providing service at \$211,835,060 in 1959 was 8.8 per cent greater than in 1958. The continuing rise in wages, in the cost of money and materials, and in taxes and tax equivalents had brought the Commission to the point where increases in wholesale rates to customers could be no longer avoided. General increases were postponed in 1959 only by foregoing the regular provision for the reserve for stabilization of rates and contingencies and also by withdrawing \$1,201,009 from reserves for the Northern Ontario Properties. Higher interim rates for power became applicable to municipal electrical utilities on January 1, 1960 and upward revisions have been, or are being made in the rates to direct industrial and other customers. At the retail 'service level it has been imperative to increase rates for certain summer cottage contracts. The everexpanding consumption of electric energy has enabled the Commission to leave other rural rates unchanged. Meanwhile, the Commission is seeking every means of keeping costs under control by rescheduling capital construction, reducing inventories, curtailing general expenditure, and increasing automation. In the municipal field, most of the utilities are in a sufficiently favourable financial position that they can absorb the present increase in the cost of their power without the necessity of raising rates to their own customers.

The Commission has continued to develop its organization so that it can meet effectively the challenge of competition from natural gas utilities, which are currently engaged in widespread extension of their operations in Ontario. An effective sales promotion campaign undertaken in conjunction with the associated municipal electrical utilities and the electrical manufacturing industry has reached out with marked success to create and widen public interest in electrical living. For the purpose of increasing the use of electricity, particular emphasis is being given to flat-rate water-heating and the installation of electric heating both for houses and for commercial buildings.

Throughout 1959 the Commission continued to receive from the Ontario Municipal Electric Association and the Association of Municipal Electrical Utilities of Ontario co-operation and assistance in the pursuit of our common

aim, which is to bring to the people of Ontario the maximum benefits of electricity at the lowest cost consistent with reliable and satisfactory service.

I wish to record that Mr. A. W. Manby retired as General Manager at the end of 1959 after thirty-eight years of distinguished service with the Commission. In the five years during which he occupied the post of General Manager, his qualities of leadership and his wide experience contributed greatly to the Hydro organization. He has been succeeded by Mr. J. M. Hambley, Deputy General Manager, whose outstanding abilities have come to be well recognized during his career with the Commission.

I wish also to express sincere appreciation to my colleagues on the Commission who have so ably participated in conducting the affairs of this great corporation during the past year. During that same period the faithful and efficient work of the staff has made possible another successful year for the Hydro enterprise, and the co-operation that prevails at all levels of this complex administration is a tribute to both the executive leadership and the staff in general.

Respectfully submitted,

JAMES S. DUNCAN,

Chairman.

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FIFTY-SECOND ANNUAL REPORT

OF

The Hydro-Electric Power Commission of Ontario

FOREWORD

THE Hydro-Electric Power Commission of Ontario is a corporate entity, a self-sustaining public enterprise endowed with broad powers with respect to electricity supply throughout the Province of Ontario. Its authority is derived from an Act of the Provincial Legislature passed in 1906 to give effect to recommendations of earlier advisory commissions that the water powers of Ontario should be conserved and developed for the benefit of the people of the Province. It now operates under The Power Commission Act (7-Edward VII, c. 19) passed in 1907 as an amplification of the Act of 1906 and subsequently modified from time to time (Revised Statutes of Ontario, 1950, c. 281, as amended).

The Commission may have from three to six members, all of whom are appointed by the Lieutenant-Governor in Council. One commissioner must, and a second commissioner may, be a member of the Executive Council of the Province of Ontario. In the conduct of the Commission's affairs, the commissioners are responsible for, and are the final authority in establishing policy.

2 Foreword

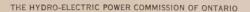
Systems and the Power Supply

For the financial and administrative purposes of the Commission, the Province is divided into two parts. The roughly triangular part lying south of Lake Nipissing and the French and Mattawa Rivers is served by the Southern Ontario System, a fully integrated power system combining the Niagara, Georgian Bay, and Eastern Ontario Divisions. The system is operated on a co-operative basis predominantly for the benefit of more than three hundred municipal electrical utilities supplied with power at cost, but in part also, for the benefit of the Rural Power District which it serves. The northern part of the Province is served by the Northern Ontario Properties, held and operated for the most part in trust for the Province, but operated in part also for the benefit of a group of utilities supplied with power at cost. The Northern Ontario Properties include a Northeastern and a Northwestern Division. Each of these two divisions is an integrated power system, the former being interconnected with the Southern Ontario System.

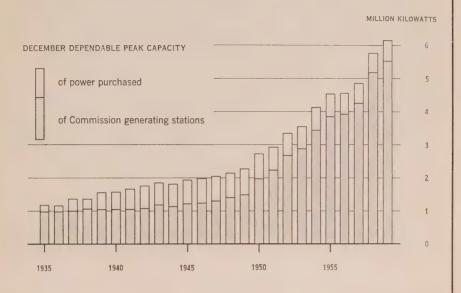
In addition to administering the enterprise over which it has direct control, the Commission exercises certain regulatory functions with respect to the group of municipal electrical utilities which it serves. In order to provide convenient and expeditious service in this dual function of regulation and supply, the Commission has subdivided its province-wide operations into nine regions, seven in the south and two in the north, with regional offices located in nine major municipalities. At present the two northern regions coincide with the two northern divisions.



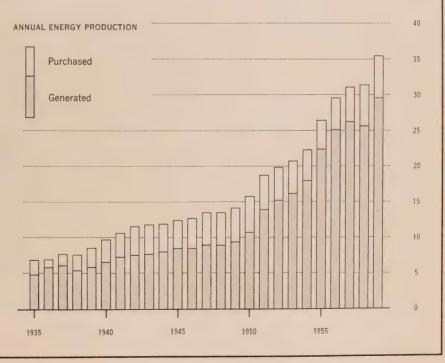
ST. LAWRENCE POWER PROJECT — This aerial view of the Project shows the 100-square-mile Lake St. Lawrence created by the construction of the Robert Moses Power Dam and the Robert H. Saunders-St. Lawrence Generating Station. These twin stations have a total installed capacity of more than 1.8 million kilowatts in 32 generating units. In the background the Long Sault Dam extends from Barnhart Island to the United States mainland.



TOTAL POWER RESOURCES AND ENERGY PRODUCTION







4 Foreword



LAKEVIEW GENERATING STATION — The site of the thermal-electric station on the western outskirts of Metropolitan Toronto, where the first of four 300,000-kilowatt turbo-generators is scheduled for service by late 1961

The Commission is primarily concerned with the provision of electric power by generation or purchase and its delivery in bulk either for resale, or for use in the industrial operations of certain customers served directly. Power for resale is delivered to the associated municipal electrical utilities, and to certain interconnected systems, including a number of independent municipal distribution systems, operating within or beyond the Provincial boundaries. The industrial customers served directly include mines and industries in unorganized areas. Some power users located within areas served by the municipal utilities are also served by the Commission since their power requirements may be so large or may create supply conditions so unusual as to make service by the local municipal utilities impracticable. In total, bulk delivery for resale and for industrial use accounts for about 90 per cent of the Commission's energy sales. The remaining 10 per cent of the Commission's sales are made to ultimate customers either in rural areas served on behalf of the townships by the Commission's rural distribution facilities, or in a relatively small group of municipalities served by Commission-owned local distribution systems. In general, however, retail service to ultimate customers in most cities and towns, in many villages, and in certain populous township areas is supplied by the associated electrical utilities, owned and operated by local commissions and functioning under the general supervision of The Hydro-Electric Power Commission of Ontario as provided for in The Power Commission Act and The Public Utilities Act.

Financial Features

The basic principle governing financial operations of the undertaking and its associated municipal electrical utilities is that service is provided at cost. In the Commission's operations, cost of service includes payment for power purchased, charges for operating and maintaining the power systems, and related fixed charges. The fixed charges represent interest on debt, reserve provisions for depreciation and for contingencies and rate stabilization, and the further provision of a sinking fund reserve for retiring the Commission's long-term debt. The municipal utilities operating under cost contracts with the Commission are billed throughout the year at interim rates based on estimates of the cost of service. At the end of the year, when the actual cost of service is established, the necessary balancing (debit or credit) adjustments are made in their accounts. Retail rates for the municipal utilities are established at levels calculated to produce adequate revenue to meet cost. The Commission's retail rate structure for rural service other than industrial power service has been uniform throughout the Province since 1944.

The enterprise from its inception has been self-sustaining. The Province, however, guarantees the payment of principal and interest on all bonds issued by the Commission and held by the public. In addition, the Province has materially assisted the development of agriculture by contributing under The Rural Hydro-Electric Distribution Act toward the capital cost of extending rural distribution facilities.



RICHARD L. HEARN GENERATING STATION — This station, placed in service in Toronto in 1951, is being extended by the addition of four 200,000-kilowatt generating units. The first of the additional units was installed early in 1959. The remainder are scheduled for service in 1960. When completed, the installed capacity of the station will total 1.2 million kilowatts.

	1950
Dependable peak capacity, Decemberthousand kw	2,730
Primary power requirements, Decemberthousand kw	2,799
Annual energy generated and purchased million kwh	15,880
Primary million kwh	15,287
Secondarymillion kwh	593
Annual energy sold by the Commission million kwh	14,074
Annual revenue of the Commission (net after refunds) million \$	99*
Fixed assets at cost million \$	861*
Gross expenditure on fixed assets in year million \$	171*
Total assets, less accumulated depreciation million \$	934*
Long-term debtmillion \$	571*
Transmission linecircuit miles	13,637
Primary rural distribution linecircuit miles	34,793
Average number of employees in year	21,187
Number of associated municipal electrical utilities	321
Ultimate customers served by the Commission and municipal utilitiesthousands	1,187

^{*} Financial figures for 1950 relate to a 14-month period ending December 31.

Annual Summary—1959

The summary table of statistics on this page shows an increase of 12.0 per cent in kilowatt-hour sales and an increase of 7.6 per cent in net revenue.

During 1959 the Commission established a new record for the additional generating capacity placed in service in any one year. Twelve units were placed in service, nine at Robert H. Saunders-St. Lawrence Generating Station and one unit at each of Richard L. Hearn Generating Station, Silver Falls Generating Station, and Abitibi Canyon Generating Station. The additional unit at Richard L. Hearn Generating Station, however, was not available at the time of the system peak in December.

Ceremonies were held at Robert H. Saunders-St. Lawrence Generating Station on June 27 in conjunction with the official opening of the St. Lawrence Seaway. Her Majesty Queen Elizabeth II and His Royal Highness the Prince Philip attended, together with the Honourable Richard M. Nixon, Vice-President of the United States. At the base of the monument established at the International Boundary, Her Majesty unveiled an inscription commemorating the co-operative aspects of the great international power project.

Construction work is proceeding on hydraulic developments at Otter Rapids on the Abitibi River and Red Rock Falls on the Mississagi River. Field studies have been undertaken at those other potential hydraulic sites in northern Ontario which seem most advantageous for economic development. Intensive consideration is being given to problems involved in the transmission of this power at extra-high voltage for use in areas of concentrated load.

The unit placed in service at Richard L. Hearn Generating Station was one of four 200,000-kilowatt units scheduled for installation before the end of 1960.

Summary 1950-1959

1959	1958	1957	1956	1955	1954	1953	1952	1951
6,15	5,761	4,844	4,552	4,530	4,135	3,565	3,353	2,942
5,55	5,139	4,784	4,514	4,229	3,702	3,488	3,278	3,109
35,46	31,450	31,101	29,523	26,555	22,386	20,912	19,974	18,811
31,54	28,382	27,405	25,537	23,258	20,788	19,951	18,774	17,544
3,91	3,068	3,696	3,986	3,297	1,598	961	1,200	1,267
32,05	28,633	28,318	26,828	23,909	19,928	18,587	17,728	16,632
21.	198	197	183	162	143	136	112	102
2,248	2,108	1,931	1,733	1,573	1,469	1,355	1,177	1,020
154	191	209	173	115	133	184	163	165
2,54	2,423	2,255	2,011	1,788	1,653	1,491	1,266	1,099
1,78	1,691	1,573	1,392	1,209	1,162	1,040	862	690
17,713	17,499	16,717	16,489	16,115	15,785	15,251	14,813	14,280
47,35	46,438	45,375	44,492	43,851	42,540	41,589	40,277	38,198
15,860	17,701	19,597	18,075	17,278	18,750	19,242	19,570	21,174
354	354	351	350	343	338	332	327	324
1,830	1,757	1,674	1,612	1,540	1,467	1,390	1,316	1,249

The program of thermal-electric generating station construction in the Toronto area was expanded during 1959 to include the third and fourth 300,000-kilowatt units at Lakeview Generating Station, which are scheduled for service in 1963 and 1964. Work continued at Thunder Bay Generating Station where a 100,000-kilowatt unit is to be brought into service late in 1961. In that year also, work may be under way for the construction of Canada's first large-scale nuclear power development. A site on the shore of Lake Huron between Kincardine and Port Elgin was established for this project during 1959. Meanwhile excellent progress was made in the construction of the 20,000-kilowatt Nuclear Power Demonstration plant which is being built as a joint undertaking by the Commission, Atomic Energy of Canada Limited, and Canadian General Electric Company Limited. It is scheduled for initial service in 1961.

On July 9, 1959 a light supplied with power at a frequency of 25 cycles was turned off in a residence in Leaside and a light supplied with 60-cycle power was turned on. This symbolic act marked the official completion of the program for standardizing frequency at 60 cycles in the Southern Ontario System and the Northeastern Division of the Northern Ontario Properties. The Frequency Standardization Section in this year's Report gives a brief historical summary of the entire operation, which was the most extensive of its kind in electrical utility history.

GUIDE TO THE REPORT

Details of the Commission's activities which have been briefly summarized in the foregoing paragraphs are given in the seven sections and four appendices of the Report which follow. Operations, finance, customer relations, and frequency standardization are the subjects of the first four sections and their 8 Foreword

related appendices. The narrative in Section I dealing with the production, purchase, and delivery of power is supplemented in the text by reports of weather conditions, maintenance, communications, and forestry, all of which are related to operations. Supplementary tables are in Appendix I. Section II includes the Commission's balance sheets, statements of financial operations, and tables showing the funded debt and advances from the Province of Ontario. Appendix II includes supporting schedules and accounts, in addition to the statements of reserves, sinking fund equity, and cost of power. In Section III consideration is given first to the wholesale operation of supplying power to municipal electrical utilities and to certain interconnected systems for resale, and second to service to certain industrial customers supplied directly by the Commission. The supply of power in wholesale quantities to the rural operating areas is then briefly discussed under the heading Rural Electrical Service. This commentary is immediately followed by a discussion of retail aspects of service to ultimate customers served by the Commission in these areas. Supplementary information on rural service is to be found in Appendix III. Another subsection of Section III, in the form of reports from the regions, deals with certain activities relative to service in municipal utilities. Many of these activities have involved participation by, or the assistance of, members of the Commission's staff. Frequency standardization is the subject of Section IV, which this year is in the form of a brief historical summary of the entire ten-year operation.

Engineering and construction activities are discussed in the two sections that follow. Section V deals with the planning and construction of facilities for the delivery of power. It includes descriptions of the more important construction projects and statistics relative to these and other facilities for the generation, transformation, and delivery of power. Section VI contains reports on the progress of some of the investigations being conducted by members of the Commission's Research Division.

Section VII deals with aspects of employee relations, training, and staff administration. Appendix IV lists Orders in Council and legislation pertaining to the Commission's affairs.

A large part of the Report is devoted to aspects of retail service to ultimate customers, especially that provided by the municipal electrical utilities. The commentary on these activities and the statistical tables applicable to them are brought together in a supplement to the Report entitled Municipal Electrical Service beginning on page 187. The complete municipal service supplement includes four statements: (1) Statement "A"—balance sheets, (2) Statement "B"—operating statements, (3) Statement "C"—rates, and (4) Statement "D"—other statistical information relating to the municipal systems. As the service rendered by the Commission-owned local systems is comparable to that provided by the municipal utilities, the local systems are included in the statistical summaries in the municipal supplement and are also listed in Statements "C" and "D".

SECTION I

OPERATION OF THE SYSTEMS

A trend towards recovery from the economic recession had been firmly established by the beginning of 1959 and there was continued improvement in general business activity in Ontario throughout the year. This in turn resulted in increased demands for power.

Primary peak requirements, all systems, were 8.1 per cent greater in December 1959 than in December 1958. The largest proportionate increase took place in the Northeastern Division where the December peak load was 21.4 per cent greater than the peak in February 1958. The Northwestern Division primary peak requirements showed only a modest increase over the 1958 maximum. In the Southern Ontario System, on the other hand, primary peak requirements were up by 7.7 per cent, a rate of growth considerably faster than the long-term (1922-1959) rate of approximately 6 per cent.

The increases in requirements were met by a net increase of 393,600 kilowatts in dependable peak capacity resulting, in part, from a recalculation of the dependable capacities of certain stations on the basis of performance,

POWER SUPPLY STATISTICS-1959

(Figures for 1958 and Per Cent Increase in Italic Type)

		Northern Prope		
	Southern Ontario System	North- eastern Division	North- western Division	Total
Resources				
Dependable peak capacity kw —December kw	5,213,700 4,930,400 5.7%	345,400 300,400 15.0%	595,600 530,300 12.3%	6,154,700 5,761,100 6.8%
Requirements				
PRIMARY Peak—Annual maximum kw kw	4,578,541 4,252,715 7.7%	550,067 453,199 21.4%	450,748 448,821 0.4%	5,556,474* 5,139,004* 8.1%
Energy—Total annual kwh kwh		3,559,611,260 3,034,644,968 17.3%	2,760,792,799 2,713,801,843 1.7%	31,546,671,476 28,381,884,967 11.2%
Loads				
Primary and Secondary Peak—Annual maximum kw kw	4,913,941 4,459,367 10.2%	550,067 469,048 17.3%	554,196 489,121 13.3%	6,018,204* 5,417,536* 11.1%
Energy—Total annual kwh kwh		3,615,319,810 3,133,555,628 15.4%	3,275,759,457 2,830,342,462 15.7%	35,465,414,284 31,450,379,846 12.8%
PRIMARY ONLY				
Energy—for use in Ontario kwh kwh		3,558,196,571 3,034,238,923 17.3%	2,760,792,799 2,713,801,843 1.7%	31,143,169,787 27,979,394,922 11.3%
—Total annual kwh kwh		3,559,611,260 3,034,644,968 17.3%	2,760,792,799 2,713,801,843 1.7%	31,546,668,476 28,381,884,967 11.2%

^{*}These annual maxima are the arithmetic sums of the three system peaks in December. In the two northern divisions the annual maximum does not necessarily occur in December.

but principally from the placing in service of additional units at three hydroelectric stations. Nine units installed during the year at the Robert H. Saunders-St. Lawrence Generating Station brought the station to its full complement of sixteen units. At Abitibi Canyon Generating Station one 45,000-kilowatt unit was placed in service, bringing the total number of units there to five, and the single 45,500-kilowatt unit in the newly constructed station at Silver Falls was placed in service. The fifth unit, a 200,000-kilowatt turbo-generator, was installed at Richard L. Hearn Generating Station in Toronto but was not available as a source of power at the time of the system peak.

The total net output of all resources in 1959 was 35.5 billion kilowatt-hours, an increase of 12.8 per cent over output in 1958. Of this amount, 29.3 billion kilowatt-hours were produced by the Commission's hydro-electric generating stations and 0.3 billion kilowatt-hours by its thermal-electric stations; the balance was purchased.

Stream-flow and Storage Conditions

Water conditions generally throughout the Province were more favourable than they had been in 1958. However, flow on the Niagara River, which provides such a large part of the Southern Ontario System's hydro-electric power, fell short of the long-term median.

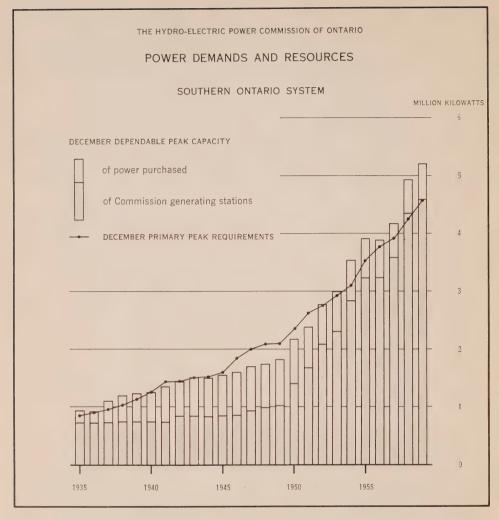
During the summer months, run-off in the Southern Ontario System declined and the volume of water held in storage fell below normal in most watersheds; however, heavy rains in August resulted in excellent water storage conditions which continued until the end of the year. Similar conditions occurred in the Northeastern Division during 1959. In the Northwestern Division, water storages were replenished when the spring freshet began late in June, and subsequently heavy rains during the late summer and fall months resulted generally in good water conditions throughout the Division.

System Control Centre

Early in 1959 the Commission established a new system control centre at Richview Transformer Station in western Metropolitan Toronto. By June 1, the staff of the former control centre at Head Office had transferred their operation



The Commission established a new system control centre at Richview Transformer Station from which the operation of the high-voltage network in southern Ontario is regulated. Operators seated before a control panel receive telemetered information which indicates the extent of adherence to the operating schedule.



to the new location. There the production supervisor will be responsible for economic despatch of power from generating sources, and the operation of load-frequency control equipment; the system supervisor will be concerned with the operation of the transmission system, voltage control, and equipment outages.

The new centre will provide efficient and flexible control of widespread and complex operations. Located physically close to the Commission's high-voltage network, and centrally with respect to electrical loads, the control centre is a focal point for telemetered information on power loads throughout the Southern Ontario System. A console in the main operations room is equipped with automatic controls to regulate generation in accordance with changes in system load. The output of selected generating stations is raised or lowered by electric impulse control. Provision has been made also for the future installation of a special despatch unit which will automatically compute where the next block of power can be most economically produced, taking into consideration the cost of generating power at the various stations, and losses involved in transmission to the load centre.

SOUTHERN ONTARIO SYSTEM

The primary peak demand for the Southern Ontario System occurred on December 21, and at 4,578,541 kilowatts was 7.7 per cent greater than the primary peak demand in 1958. Greater generating capacity at Robert H. Saunders-St. Lawrence Generating Station contributed largely to the 18.9 per cent increase in output from system hydro-electric resources as compared with output in 1958. It was possible to reduce the number of more costly kilowatthours sent out from thermal-electric resources by 44 per cent, increase transfer to the Northeastern Division by 38.1 per cent, reduce purchases of power by 1.3 per cent, and still make 12.1 per cent more energy available to the system during the year.

The extensive rearrangement and expansion of transformation and transmission facilities associated with the incorporation of Robert H. Saunders-St. Lawrence Generating Station into the system has been described in earlier Reports. During the summer decline in waterflows, the Commission purchased economy power and energy from the Quebec Hydro-Electric Commission to the extent that maximum permissible loadings on these lines would allow. Additional transmission capacity became available when facilities were provided to incorporate Cataraqui Transformer Station and Ottawa-Hawthorne Transformer Station. When a new 230-ky circuit from E. V. Buchanan Transformer Station to Lambton Transformer Station was placed in service in October, deliveries of reactive power were no longer required from The Detroit Edison Company.



ST. LAWRENCE POWER PROJECT — The administration wing of the Robert H. Saunders-St. Lawrence Generating Station overlooks the main dam structure. From an attractively furnished gallery in the upper storey, visitors have a good view of the adjoining powerhouses.

The Commission re-established parallel operation with the system of the Quebec Hydro-Electric Commission during the course of the year; though parallel operation was subsequently discontinued, further tests will be carried out in 1960. In August, the first exchange of water for power between the Commission and the Power Authority of the State of New York took place. Water was diverted to the Robert Moses Power Dam, and power was returned to the Commission over interconnections at Cornwall and Niagara Falls.

For a trial period beginning late in November and continuing through March 1960, the International Joint Commission, through the International St. Lawrence River Board of Control, granted permission for peaking production at the international powerhouses of the St. Lawrence Power Development. The average flow allotted for the day remains unchanged but each powerhouse may exceed the daily average by 10,000 cfs during peak periods. The arrangement is an advantage to the Commission in reducing the amount of thermal-electric production required at time of peak. There has been no appreciable effect on river-levels as a result of this method of operation.

The last four 25-cycle generating units of the Commission's Quebec suppliers were standardized at 60 cycles in 1959, the final one being returned to service in September. The 25-cycle synchronous condenser at A. W. Manby Transformer Station was also standardized during the year. A number of static capacitors were installed at Oakville, Toronto-Bathurst, and Toronto-Fairbank Transformer Stations as part of the program to supply additional reactive power in the Toronto area.



The beauty of a winter scene hides the costly damage done by the sleet storm at the year end. The heavy ice formation on conductors and poles seriously interrupted service to customers in a large area in southern Ontario.

Sleet Storm Damage

Freezing rain in late December resulted in heavy ice formation on transmission and distribution facilities in southern Ontario, and in the period of just over three weeks between December 27, 1959 and January 22, 1960 there occurred a succession of four major ice storms which meteorological records recognize as the worst in Commission history. Damage to supply facilities on December 28 and 29 left 48,000 Commission customers and 60,000 municipal

utility customers without power for periods in excess of 6 hours. Nearly 40 per cent of the customers in North York Township and Scarborough Township municipal systems were affected. In the subsequent sleet storms, extensive damage to distribution lines resulted in comparatively long interruptions to service. The total area affected stretched from London on the west to Oshawa on the east and in a north-south direction from Georgian Bay to the Niagara area.

At the peak of the repair operation a force of over 2,000 Commission tradesmen was working from 16 to 18 hours a day, and approximately 800 municipal utility tradesmen were also engaged in similar work. The Commission crews were equipped with 4 helicopters and nearly 350 work vehicles of different types. The total cost of repairs to all the Commission's lines is estimated at \$1.5 million.

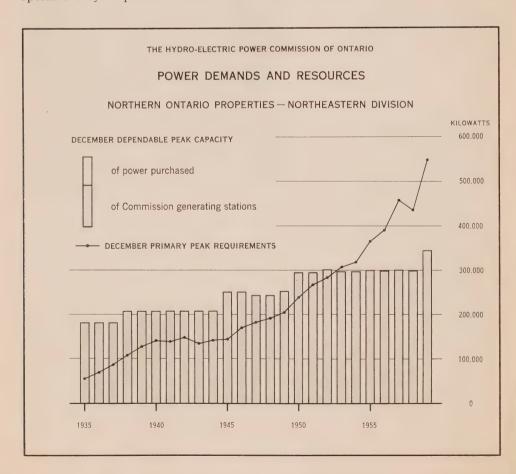


Service to customers is maintained under the most rigorous weather conditions. Linemen, without thought for personal convenience, or the convenience of their families, worked through the year-end holiday period to restore the flow of power.

The greatest damage to high-voltage lines occurred in the vicinity of Orange-ville. Here the two skywires and six conductors of the 230-kv circuits between Essa and Detweiler Transformer Stations were coated with ice and snow estimated at 25 tons per span. Early in January 1960 the ice was melted from this line by connecting the output of Des Joachims Generating Station alternately into each circuit, the line being first short-circuited and grounded at a point 40 miles southwest of Essa Transformer Station just outside the area most heavily affected by ice. Under a current of 1,300 amperes the ice was melted from each circuit in approximately one hour.

NORTHERN ONTARIO PROPERTIES

The total energy made available to the Northeastern Division was 15.4 per cent greater in 1959 than in 1958. The increased primary energy demands were met for the most part by substantially increased transfers of energy from the Southern Ontario System. The primary peak demand for the year occurred in December and amounted to 550,067 kilowatts, which represents a real increase of about 6 per cent over demands adjusted on a comparable basis for 1958. The adjustment makes allowance for the strike in the mining industry during the autumn and early winter months of 1958. In the Northwestern Division, the output of the Commission's stations amply provided for a primary energy demand which was only slightly greater than demands in 1958. As a result the energy available for sale in the secondary market was substantially increased. The Commission's share of the energy produced in Manitoba from water diverted from Lake St. Joseph was sold in the Province of Manitoba. The primary peak demand in the northwest occurred in June and amounted to 450,748 kilowatts; the primary peak demand in December 1959 was 427,866 kilowatts. decrease resulted from the decision of a large mining customer to reduce dredging operations by 50 per cent.

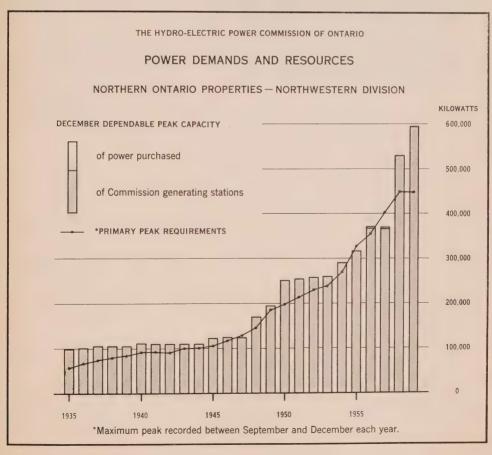


MAINTENANCE OF THE SYSTEMS

Electrical and Mechanical Maintenance

Apart from routine activities, the maintenance situations of most interest, and generally involving higher than normal expense, were associated with high-voltage switchgear. Two problems involved insulation failure, the first in four support insulators of air-blast circuit-breakers, the second in two of the current transformers associated with the 230-kv minimum-oil circuit-breakers at Detweiler Transformer Station. There were several failures on interrupters on oil circuit-breakers. Six large high-voltage power transformers and nine smaller transformers of distribution voltage were completely dismantled following core or winding failure. Two of the large and one of the small transformers were still under warranty by the manufacturers. Complete rewinding was required for only one small hydraulic generator.

Maintenance training centres established at Toronto-Leaside Transformer Station in 1959 and at Toronto-Bridgman Transformer Station in 1958 have facilitated the practical instruction of apprentices considerably. A part of the condenser building at Toronto-Leaside Transformer Station was equipped with surplus equipment for use in training in the maintenance of rotating machines and circuit-breakers.



As an experiment in two of the regions, the period intervening between routine overhauls at distributing stations has been extended to two years. If, as expected, more thorough overhaul at less frequent intervals results in satisfactory security at lower cost, the policy will be extended eventually to all regions.

The Commission purchased a larger mobile unit for removing gas from insulating oil. Capable of treating 2,000 gallons per hour, twice the capacity of



A wide variety of modern equipment is used by the Commission in the maintenance of its electrical system. Here, a cable-testing truck is being used to locate faults and carry out pre-service tests on underground transmission and distribution cables.

any one of the three already in use, the new unit will make for improved transformer maintenance.

The failure of carbon-dioxide fire-protective equipment to operate during certain fault conditions has made extensive testing necessary. A regular testing program now in effect should ensure the reliability of fire-protective systems on large generating units.

The inspection and mechanical maintenance of hydraulic equipment was carried out on satisfactory schedules.

At Alexander Generating Station, crews welded severe cracks on four blades of a propeller turbine runner without dismantling the equipment.

Lines and Communications

Live-line maintenance was carried out in the three-year program of repair work on the 230-kv transmission circuits bringing power from sources on the Gatineau River. The cable-type dampers on these circuits are being replaced by more modern torsion-type dampers. A film taken of the work in progress will assist in lineman training and will undoubtedly stimulate interest in live-line work. Live-line work on other high-voltage lines as well as on subtransmission and distribution circuits is becoming increasingly a routine operation with consequent improvement in continuity of service.

At the eastern entrance to the city of Hamilton a 115-kv double-circuit steel transmission tower was raised 20 feet by crane to provide clearance for a new through highway. At this tower the line changes direction by 34 degrees. Two mobile cranes with 100-foot booms and two crawler tractors with ¾-inch winch cables held the tower against the pull of the conductors, which were left in place under normal tension during the lifting.

In preparation for live-line maintenance on 460-kv lines in the future, consideration was given to the effect of extra-high-voltage fields on linemen working on these lines. The investigation established the feasibility of live-line work on 460-kv lines and disclosed methods of reducing the discomfort occasioned by exposure to these electrical fields.

Line maintenance helicopters operated for a total of 3.894 hours during the year to patrol over 200,000 circuit miles of transmission lines. In addition, they spent 225 flying hours during the summer spraying chemical herbicide over 5,000 acres of isolated right of way in the Northeastern and Northwestern Regions. The versatility of these machines may be judged from their use during 1959 for surveys, water-level readings, photography, forest fire control, search and rescue operations, the delivery of men and materials to isolated areas or under emergency conditions, as well as for a number of other assignments.

Under the planned pole replacement program nearly 16,300 transmission, distribution, and communication poles were installed by maintenance crews. More than



In 1959 the Commission's helicopters patrolled 158,000 miles of high-voltage transmission lines. One of the helicopters is shown here inspecting a 115,000-volt line crossing farmlands in southern Ontario.

540 steel towers were cleaned and painted as part of the progressive tower maintenance arrangements. When linemen rather than painters undertake this work, it is frequently done without de-energizing the lines.

Beginning early in the year, control of the Southern Ontario System network was gradually transferred to the new control centre at Richview Transformer Station. By the end of May the control centre was completely established and installation of the required telephone switching equipment and communication circuits had been completed. Four specially developed despatchers' private exchange telephone switchboards and a small dial telephone exchange were installed by The Bell Telephone Company. The transfer of facilities required about 6 hours, telephone service for that period being available at both locations.

Forestry

Principally because of the lateness of the growing season there was a reduction of about 6 per cent in the acreage treated with chemicals for the control of brush growth. In all, 38,000 acres of right of way were treated in 1959. Tree pruning and removal were carried out as required to maintain clearance on over

12,000 miles of the Commission's operating lines, and also on over 1,000 miles of new or municipally owned line. Over 106,000 seedling trees were planted

under the reforestation program in the Niagara, Georgian Bay, Eastern, Northeastern, and Northwestern Regions.

Transport and Work Equipment

At the A. W. Manby Service Centre on the western outskirts of Metropolitan Toronto, the Commission centralizes control of a fleet of over 2,000 transport vehicles, 900 items of major work equipment, and approximately 700 other items of minor work equipment such as pumping or auxiliary lighting equipment. The service of such major equipment could be rented from outside agencies, but periodic testing of alternative methods of obtaining it indicates that operating costs would be substantially higher under the most favourable alternative arrangement. Operation of the service centre also permits the most advantageous exploitation of technological improvements in largescale equipment.



RICHARD L. HEARN GENERATING STATION — Conveyors and booms can stockpile coal at the rate of 2,000 tons per hour at the east end of the station. More than 1.5 million tons of coal can eventually be stockpiled here. It can be conveyed to the coal bunkers at the rate of 1,000 tons per hour.

Meter Shop

A central meter shop was established at the Service Centre where meter supply as well as meter repair and verification will be centralized for the entire Commission. The services of the shop will be available to the municipal utilities when required.

SECTION II

FINANCE

THIS section of the Report, together with Appendix II, deals with the financial operations of the Commission as they relate to the Southern Ontario System and the Northern Ontario Properties. The general administrative bases upon which service is provided to these two systems are outlined on page 2 of the Foreword to this Report. The balance sheets and operating statements for the two systems are included in this section together with a statement of funded debt and a schedule of Provincial advances outstanding. Supporting schedules for these basic statements are to be found in Appendix II beginning, for the Southern Ontario System, on page 128, and for the Northern Ontario Properties, on page 162. The two statements of the allocation of the cost of power in Appendix II itemize for each cost-contract municipality its share of the total costs incurred and the amount billed under its interim rate. The financial operating results for the municipal electrical utilities themselves are reported in a municipal service supplement at the end of the Report.

Data Processing

The electronic data processing equipment installed and tested during 1958 was used with increasing effectiveness in 1959 as the results of early planning

for system development became apparent. Early in the year the first customer bills were processed through the computer for the Toronto Region. Staff in the



ELECTRONIC DATA PROCESSING — At Head Office in Toronto an operator, left, removes a reel of punched paper tape containing data received from a regional office. The operator, right, attends a high-speed sorter which can be regulated to produce other punched paper tapes, each being a consolidation of all messages of only one kind.

other regions were successively trained in using the new facilities so that by the end of 1959 five regions were operating on the new system, with the four remaining regions scheduled to change over during the early months of 1960. Concurrently the data communications network of commercial teletype facilities linking the area offices with their respective regional offices, and these in turn with Head Office, was being developed and installed. By the end of the year the bills and records for over 286,000 customer accounts were being processed by the system.

The analysis of the manpower data processing system was completed during 1959 and preparations were made for introducing the system in 1960. Electronic data processing techniques are also being applied more widely to engineering and scientific computations.

Effect of Rising Costs

Although the Commission has steadfastly sought to hold the line against the pressure of rising costs, there eventually comes a time when no organization of itself can longer withstand the effects of ever-rising wage rates, increasing material costs, the high cost of borrowed money, and the upward trend of taxation or tax equivalents. Furthermore, a significant change has taken place in the relationship between the Commission's loads and resources. By contrast with the situation just over ten years ago when construction of new resources was barely able to keep abreast of rising demands for power, the Commission today is carrying a reserve of power on its systems which is deemed appropriate for emergencies. The service security obtained from this reserve of power is also a contributing factor to the increase in power cost.

During 1959 it was clearly evident that rising costs of production must soon be reflected in an increase in the cost to the Commission's customers. Rates, however, were not advanced in 1959, and in an effort to restrict costs as much as possible, the regular appropriations for stabilization of rates and contingencies were not made. Even with this reduction in reserve appropriations for 1959, and the withdrawal of \$1,201,009 from reserves of the Northern Ontario Properties, the resulting rebate to the cost-contract municipal utilities was considerably smaller than in previous years.

Careful analysis indicated that prudence left the Commission no alternative but to increase interim rates to many utilities in the Southern Ontario System beginning January 1, 1960; in either of the operating systems, when contracts with direct industrial and other customers are renewed, increases in rates will be introduced as required. Fortunately most of the associated municipal utilities affected are in a sufficiently favourable financial position that they are able to maintain their rates to their customers unchanged for 1960. In the rural areas served by the Commission, upward adjustment of rates was necessary only for certain summer cottage contracts.

OPERATING RESULTS—1959

In the operating statements of the Commission for 1959, all receipts from the sale of secondary energy have been shown as deductions from cost rather than as revenue. In the 1958 statement of operations for the Southern Ontario System, only 25-cycle secondary energy was treated in this way.

The cost of providing service in 1959 was \$211,835,060 after applying against cost the amount of \$8,837,405 received from the sale of secondary energy. If, for comparison, 1958 results are adjusted to the 1959 basis, the cost of service in 1959 was greater than in 1958 by \$17,093,967, or 8.8 per cent. Operating costs (purchased power, operation, maintenance, and administration) were up by a substantial 12.9 per cent. This resulted mainly from increased labour and administrative costs, offset to some extent by reductions in total fuel costs at thermal-electric stations and a decrease in the amount paid for purchased power.

Gross revenues, exclusive of sales of secondary energy, amounted to \$214,680,399. These revenues are derived from municipal utilities and interconnected systems purchasing power for resale, industrial customers served directly by the Commission, and customers served by Commission-owned distribution facilities in certain municipalities and in the rural areas. On the basis of the 1959 presentation, gross revenues in 1959 exceeded revenues in 1958 by \$16,370,191, or 8.3 per cent. The excess of revenue over the cost of providing service amounting to \$2,845,339 was disposed of as follows:

Credited to cost-contract municipalities—	
Southern Ontario System Northern Ontario Properties	\$2,018,725 34,861
Credited to Rural Power District stabilization of rates and contingencies reserve, Southern Ontario System	1,085,604
Charged to Surplus account of the Province to meet a deficiency of revenue in serving customers for the account of the Province in	
the Northern Ontario Properties	293,851

\$2,845,339

SOUTHERN ONTARIO SYSTEM

The cost of providing service at \$172,860,553 was 8.1 per cent greater than the comparable cost in 1958, and gross revenue at \$175,964,882 was up by 7.9 per cent. The gross revenue figure quoted does not include \$7,913,126 received from the sale of secondary energy. This amount was applied to reduce the cost of power to the figure quoted, \$3,066,481 being derived from 60-cycle secondary export and \$4,846,645 from other secondary sales. The gross revenue figure and the receipts from secondary sales together apply to the 25,804,925,143 kilowatt-hours which are the Southern Ontario System share of total Commission sales, wholesale and retail, as shown on the table on pages 116 and 117.

Operating costs, including the cost of power purchased, were up from those of 1958 by 10.1 per cent. The remainder of the rise in the cost of providing service was brought about by increases of 17.7 per cent in interest, 3.0 per cent in depreciation, and 16.3 per cent in funds set aside for the retirement of long-term debt. The regular provision for depreciation was augmented by \$1,330,255, which was the amount required from 1959 revenues to provide for the possible early retirement of certain older hydraulic generating stations. The year-to-year increase was small because the 1958 provision had included a larger amount to reflect a reduction in the life expectancy of rural distribution and other facilities. The increase in total cost was not greater than 8.1 per cent because of the elimination of any provision for general stabilization of rates and contingencies and the substantial reduction in the special provision for nuclear development.

The deduction from cost of \$589,547 for matured sinking fund is the sum of the amounts credited to the accounts of 139 municipal utilities. The deduction is equivalent to the sinking fund provision for the current year on debt incurred for plant construction prior to 1920, the amount of the debt having been now fully retired through sinking fund payments. The 139 utilities have met their sinking fund obligations in connection with this debt over a period of forty years and are no longer required to make these payments.

The cost chargeable to the Commission on frequency standardization account during the year (see page 133) was \$14,507,371. This total was offset to the extent of \$205,539 by a credit adjustment in charges applicable to rural facilities. An amount of \$8,155,021 plus interest of \$7,823,293 was charged to the cost of power, and \$205,539 was credited to the Rural Power District to adjust the standardization expense for rural facilities. The amount to be charged in future years was increased by \$7,392,152, including an adjustment of \$1,039,802 made in the amount amortized prior to 1959 which brought the total to \$199,353,727 at the end of 1959.

The table of frequency standardization costs and charges which has appeared in this section for the past several years is included this year in Section IV, which provides a brief historical review of the entire frequency standardization operation.

Application of Special Fund for Cost Relief

In accordance with a resolution passed at the 1959 annual meeting of the Ontario Municipal Electric Association, a charge of 5 cents per kilowatt was levied on all cost-contract utilities in order to provide funds for the relief of those utilities experiencing unduly heavy costs for low-voltage distribution. This is a revision and extension of the policy followed in recent years when the interest only on a fund raised in a similar way some years ago was used to reduce the total cost of power to those utilities where this cost was particularly high. In 1959 a total of 88 utilities received benefit from this form of cost relief and the maximum charge to any municipality for low-voltage distribution was \$5.36 per kilowatt, as compared with \$14.70 per kilowatt in 1958 without the application of cost relief for this specific purpose.

In view of this and other considerations mentioned in the analysis of the operating statement, the total cost of power per kilowatt to cost-contract utilities rose, on the average, from \$37.20 in 1958 to \$37.68 in 1959. Apart from one isolated instance in which quite unusual operating conditions apply, the maximum cost of power charged to any municipal utility in 1959 was \$48.22 as compared with \$46.26 in 1958.

NORTHERN ONTARIO PROPERTIES

The cost of providing service to all customers in the Northern Ontario Properties at \$38,974,507 was 12.1 per cent higher than the cost in 1958. The cost of service to rural customers rose by 15.8 per cent.

Operating costs of \$20,820,613 were 23.5 per cent greater than in 1958. These include an increase of 43.3 per cent in the charge for energy transferred from the Southern Ontario System, which reflects the increase in sales of kilowatthours in the Northeastern Division. There were also increases of 20.6 per cent in interest charges, 12.7 per cent in depreciation provisions, and 20.7 per cent in funds set aside for the retirement of long-term debt. These increases in costs were offset to some extent by a reduction in the amount set aside for nuclear development and by the withdrawal of \$1,201,009 from the reserve for stabilization of rates and contingencies. The table of frequency standardization costs is included with the historical summary of the entire operation in Section IV.

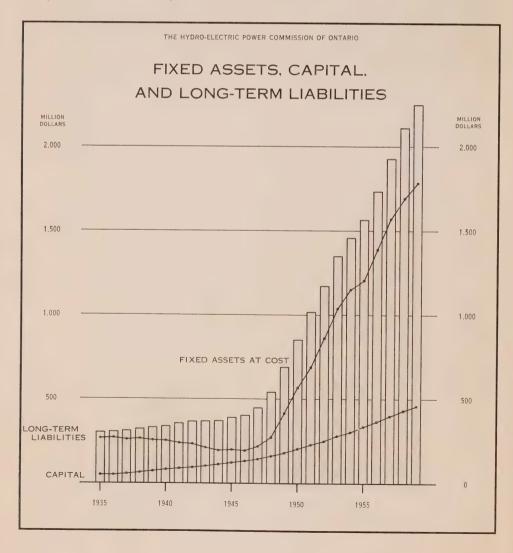
The cost of frequency standardization in the Northeastern Division of the Northern Ontario Properties was \$62,133 in 1959. An amount of \$218,114 plus \$187,625 in interest on the outstanding balance of cost was charged to operations in the current year, and at the end of 1959 there remained a balance of \$3,583,659 to be charged to the cost of power in future years.

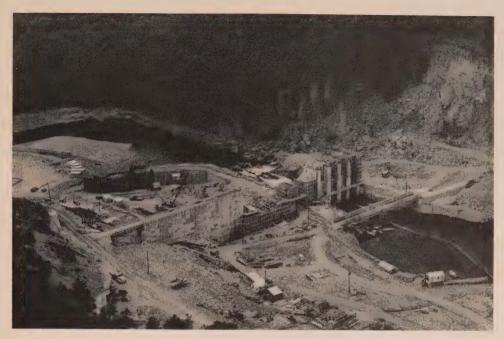
Gross revenues from sales at \$38,715,517 exceeded by 9.8 per cent comparable revenues in 1958. The revenue figure does not include receipts of \$924,279 from the sale of secondary energy since these were used to reduce the cost of power. The total energy provided was 6,253,479,653 kilowatt-hours, the Northern Ontario Properties share of total sales as shown in the table on pages 116 and 117.

In the Northeastern Division, 10 municipal utilities formerly served for the account of the Province became cost-contract customers of the Commission under the terms of The Power Commission Act. The changes were effective at various dates during the year, and the revenue from cost-contract utilities, reflecting these changes, increased by 20.0 per cent by comparison with an increase of only 8.0 per cent for other customers served for the account of the Province, excluding rural service.

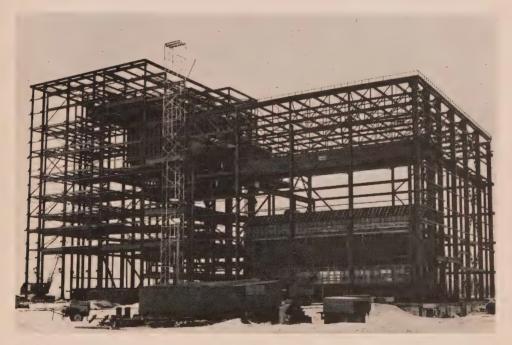
SUMMARY OF FINANCIAL POSITION

Stringency in the money market resulting in high interest rates led the Commission to take energetic steps towards rephasing the capital construction program and to explore every means of conserving working funds. The result has been a reduction in borrowings from \$150 million in 1958 to \$125 million in 1959, and an estimated \$110 million in 1960.





RED ROCK FALLS GENERATING STATION — An aerial view of the site of the Commission's newest generating station in northeastern Ontario. Taken in midsummer 1959, it shows construction being carried out behind cofferdams on either side of the sluiceway section.



THUNDER BAY GENERATING STATION — The erection of steel for the powerhouse began in September, and by the end of 1959, almost 1,500 tons had been placed in position. Initially the powerhouse will be 360 feet wide, 139 feet long, and 136 feet high, and will house a 100,000-kilowatt steam turbo-generator. If required, the structure can be extended in length to 820 feet to accommodate additional units.

The gross expenditure on fixed assets during the year amounted to \$154,103,729, of which approximately 64 per cent was spent on power generating facilities. More than half the total spent on generating station construction during the year related to the three major thermal-electric stations—Richard L. Hearn, Lakeview, and Thunder Bay Generating Stations. The extension or improvement of rural distribution facilities required the expenditure of \$19,542,527, or approximately 13 per cent of the total gross expenditure on fixed assets. After allowing for sales and retirements amounting to \$13,806,984 there was a net increase of \$140,296,745 in the investment in fixed assets bringing the total to \$2,248,272,379. This total includes \$253,943,834 in rural fixed assets. Accumulated depreciation provided on fixed assets amounted to \$262,753,571 at December 31, 1959, including a special provision charged to frequency standardization and representing anticipated capital losses on 25-cycle power system facilities to be retired, and other adjustments intended to reflect more accurately the expired service life of certain power facilities.

The funds required by the Commission for capital investment and other purposes in 1959 were obtained from sources as shown in the following table.

STATEMENT OF SOURCE AND APPLICATION OF FUNDS

for the Year Ended December 31, 1959

	'000 or	nitted
Funds Applied: Expenditures on fixed assets, \$154,104 less proceeds from sales, etc Retirement of Commission bonds and repayment of Provincial advances. Expenditures on frequency standardization. Expenditures on nuclear research. Increase in working capital.		150,040 28,537 5,720 2,400 20,628
Total	-	207,325
FUNDS PROVIDED: From issue of bonds of \$125 million par value after allowing for exchange discount, and bond issue expense	1	120,144
From operations— Southern Ontario System—excess of revenue over cost in serving customers of the Rural Power District. Northern Ontario Properties—deficiency of revenue in serving customers for the account of the Province. Charges to cost of power not requiring an outlay of cash: Provision and interest added to reserves for stabilization of rates and contingencies and sinking fund, and to accumulated depreciation. Provision in year to pay off cost of frequency standardization. Provision in year to meet cost of bond issues, etc. Withdrawal from stabilization of rates reserve.	1,086 294 67,049 8,373 2,218 1,201	
From Provincial assistance for rural construction From reduction in inventories From other sources		77,231 1,324 5,832 2,794
Total	-	207,325

The total assets of the Commission at December 31, 1959, after deducting accumulated depreciation and the intersystem account of \$1,690,580, were \$2,548,267,695 as compared with \$2,421,226,156 at December 31, 1958. The long-term debt at December 31, 1959 was \$1,785,860,536 after making allowance for the \$1,285,204 net of exchange premium and discount on debentures issued in U.S. funds. The corresponding debt at December 31, 1958 was \$1,692,377,247 on the same basis. Net capital of \$461,882,939 at the end of 1959 included \$346,915,152 contributed through sinking fund payments in the cost of power for the purpose of retiring long-term debt, \$114,862,748 in Provincial contributions for assistance in construction of rural distribution facilities, and \$105,039 of surplus arising from operations in the Northern Ontario Properties for service to customers supplied for the account of the Province.

THE HYDRO-ELECTRIC POWER

SOUTHERN

BALANCE SHEET

ASSETS

Administrative and service buildings and equipment: 214,808,102 Rural Power District. 214,808,102	FIXED ASSETS AT COST: Power System\$	1,595,190,114	
Less accumulated depreciation. 216,742,259 \$ 1,623,783,576 FREQUENCY STANDARDIZATION: Cost of completed standardization after charging \$146,735,284 to reserves and cost of power—balance to be written off in future years. 199,353,727 CURRENT ASSETS: Cash. \$ 20,014,782 Temporary investments in government and government guaranteed securities, at market value. 6,000,000 Accounts receivable. 27,630,701 Customers' securities on deposit. 517,800 Northern Ontario Properties—current account. 1,690,580 INVENTORIES HELD FOR OPERATION, MAINTENANCE, AND CONSTRUCTION: Coal at cost. \$ 12,742,220 Other materials and supplies at cost. 13,642,681 Tools and equipment at cost less depreciation. 12,196,898 Deferred Charges and Other Assets: Debenture discount and expense less amounts written off. \$ 17,801,492 Deferred work orders and other assets. 6,082,828 RESERVE FUND INVESTMENTS: Government and government-guaranteed bonds Investments held for special reserves at amortized cost plus accured interest (approximate market value \$90,118,000) Pension fund. \$ 3,216,488 Employee's liability insurance fund. \$ 3,216,488 Employee's liability insurance fund. \$ 3,216,488 Employee's savings and insurance fund. \$ 3,216,488 Employ	Administrative and service buildings and equipment:	30,527,619	
Cost of completed standardization after charging \$146,735,284 to reserves and cost of power—balance to be written off in future years	Less accumulated depreciation	216,742,259	\$ 1 672 792 5 76
to reserves and cost of power—balance to be written off in future years. 199,353,727 CURRENT ASSETS: Cash			φ 1,023,763,370
Cash \$ 20,014,782 Temporary investments in government and government- guaranteed securities, at market value 6,000,000 Accounts receivable 27,630,701 Customers' securities on deposit 517,800 Northern Ontario Properties—current account 1,690,580 INVENTORIES HELD FOR OPERATION, MAINTENANCE, AND CONSTRUCTION: Coal at cost \$ 12,742,220 Other materials and supplies at cost 13,642,681 Tools and equipment at cost less depreciation 12,196,898 Deferred Charges and Other Assets: Debenture discount and expense less amounts written off \$ 17,801,492 Deferred work orders and other assets 6,082,828 RESERVE FUND INVESTMENTS: Government and government-guaranteed bonds Investments held for special reserves at amortized cost plus accrued interest (approximate market value \$90,118,000) Pension fund \$ 102,218,542 Employees' savings and insurance fund \$ 3,216,488 Employees' savings and insurance fund 794,432 Investments held for other reserves at amortized cost (approximate market value \$90,327,000) Stabilization of rates and contingencies 86,237,682 Sinking fund 14,069,486 206,536,630	to reserves and cost of power—balance to be written off		199,353,727
Temporary investments in government and government- guaranteed securities, at market value			
Accounts receivable	Temporary investments in government and government-	20,014,782	
Inventories Held for Operation, Maintenance, and Construction: Coal at cost	Accounts receivable	27,630,701 517,800	
Construction: Coal at cost	Northern Ontario Properties—current account	1,090,580	55,853,863
Other materials and supplies at cost	Construction:		
Deferred Charges and Other Assets: Debenture discount and expense less amounts written off\$ Deferred work orders and other assets	Other materials and supplies at cost	13,642,681	00 404 400
Debenture discount and expense less amounts written off\$ Deferred work orders and other assets	Daniel Course of		38,581,799
Reserve Fund Investments: Government and government-guaranteed bonds Investments held for special reserves at amortized cost plus accrued interest (approximate market value \$90,118,000) Pension fund. Employer's liability insurance fund. Employees' savings and insurance fund. Investments held for other reserves at amortized cost (approximate market value \$90,327,000) Stabilization of rates and contingencies. Sinking fund. 206,536,630	Debenture discount and expense less amounts written off\$		
Government and government-guaranteed bonds Investments held for special reserves at amortized cost plus accrued interest (approximate market value \$90,118,000) Pension fund	Property Every Lyunggarana		23,884,320
Pension fund	Government and government-guaranteed bonds Investments held for special reserves at amortized cost plus accrued interest (approximate market value \$90,118,000)		
Stabilization of rates and contingencies 86,237,682 Sinking fund 14,069,486 ———— 206,536,630	Pension fund	3,216,488	
	Stabilization of rates and contingencies.		206.536.630
		\$	

Auditors' Report

We have examined the balance sheet of the Southern Ontario System of The Hydro-Electric Power Commission of Ontario as at December 31, 1959, and the statement of operations for the year ended on that date. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statement of operations present fairly the financial position of the Southern Ontario System of the Commission as at December 31, 1959 (subject to the trusts which prevail in respect thereto) and the results of the operations for the year ended on that date.

CLARKSON, GORDON & CO.

Chartered Accountants.

\$ 2,147,993,915

COMMISSION OF ONTARIO

ONTARIO SYSTEM

AS AT DECEMBER 31, 1959

LIABILITIES,	RESERVES,	AND CAPITAL
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LONG-TERM LIABILITIES (including \$12,897,995 maturing in 1960):		
Funded debt (at par of exchange)\$ Less—issued to finance Northern Ontario Properties, a	1,756,649,000	
separate trust operated by the Commission	283,583,545	
Advances from the Province of Ontario (at par of	1,473,065,455	
exchange)\$30,496,740 Less advances for Northern Ontario Properties 5,457,014		
·	25,039,726	
Less exchange discount (net) incurred on funded debt payable	1,498,105,181	
in United States funds	750,037	1,497,355,144
CURRENT LIABILITIES: Accounts and payrolls payable and accrued charges\$	25,485,128	
Customers' deposits Interest accrued on long-term liabilities	1,078,051 16,409,191	
		42,972,370
Special Reserves:		
Pension fund\$ Employer's liability insurance fund	104,226,254 3,074,435	
Employees' savings and insurance fund	833,390	108,134,079
		100,101,077
GENERAL RESERVE: Stabilization of rates and contingencies		120,528,817
stabilities of faces and contingences.		120,020,017
CAPITAL:		
Sinking fund reserve: Represented by—		
Funded debt and Provincial advances retired through sinking funds\$269,334,976		
Sinking fund investments and cash 14,147,440	283,482,416	
Contributed capital: Province of Ontario, assistance for rural construction	95,521,089	
		379,003,505

Note: Commitments under uncompleted contracts for the construction of fixed assets, approximately \$65,000,000.

NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power Commission of Ontario in BALANCE SHEET

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Fixed Assets at Cost:		
Power System\$ Administrative and service buildings and equipment Rural Power District.	365,448,161 3,162,651 39,135,732	
Less accumulated depreciation		361,735,232
Frequency Standardization: Cost of completed standardization after charging \$1,140,451 to cost of power—balance to be written off in future years		3,583,659
balance to be written on in future years		3,363,039
Current Assets:		
Cash\$	383,723	
Accounts receivable	5,460,709 1,070,777	
Customers' securities on deposit	1,488,565	0.402.554
		8,403,774
Inventories Held for Operation, Maintenance, and Construction:		
Materials and supplies at cost\$	1,323,749	
Tools and equipment at cost less depreciation	543,193	1,866,942
Deferred Charges and Other Assets:		
Debenture discount and expense less amounts written off\$ Account receivable in annual instalments 1960-1989	3,467,916	
Deferred work orders and other assets	1,799,161 891,826	
-		6,158,903
Reserve Fund Investments:		
Government and government-guaranteed bonds at amortized		
cost (approximate market value \$16.497.000)		
Held for—Stabilization of rates and contingencies reserve \$ Sinking fund reserve	16,257,569 3,958,281	
		20,215,850
	•	101 064 360

\$ 401,964,360

Auditors' Report

We have examined the balance sheet of the Northern Ontario Properties, held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario and municipalities supplied with power at cost, as at December 31, 1959, and the statements of operations and surplus for the year ended on that date. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statements of operations and surplus present fairly the financial position of the Northern Ontario Properties as at December 31, 1959 (subject to the trusts which prevail in respect thereto) and the results of the operations for the year ended on that date.

CLARKSON, GORDON & CO.

Chartered Accountants.

Toronto, Canada, June 30, 1960.

PROPERTIES

Trust for the Province of Ontario and Municipalities Supplied with Power at Cost AS AT DECEMBER 31, 1959

LIABILITIES, RESERVES, AND CAPITAL

LONG-TERM LIABILITIES (including \$6,583,796 maturing in 1960): Funded debt (at par of exchange)\$ Advances from the Province of Ontario (at par of exchange)	283,583,545 5,457,014	
Less exchange discount (net) incurred on funded debt payable in	289,040,559	
United States funds.	535,167	288,505,392
Representing the portion of the funded debt and advances from the Province of Ontario owing by The Hydro-Electric Power Commission of Ontario, issued to finance Northern Ontario Properties.	ф	200,303,392
CURRENT LIABILITIES:		
The Hydro-Electric Power Commission of Ontario—current account\$ Accounts and payrolls payable and accrued charges Customers' deposits Interest accrued on long-term liabilities	1,920,429	44 640 055
General Reserve:		11,649,975
Stabilization of rates and contingencies		18,929,559
Capital: Sinking fund reserve: Province of Ontario	63,432,736	
Represented by— Funded debt and Provincial advances retired through sinking funds		
\$ 63,432,736		
Contributed capital: Province of Ontario, assistance for rural construction Surplus arising from supply of power to customers served for the account of the Province of Ontario	19,341,659 105,039	02.070.424
		82,879,434
	\$	401,964,360

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

STATEMENT OF OPERATIONS

for the Year Ended December 31, 1959

	Power System	Rural Power District	Total
	\$	\$	\$
Cost of Primary Power: Cost of power purchased	12,936,538		12,936,538
Operation, maintenance, and administrative expenses	51,675,568	12,502,896	64,178,464
and reserves, less interest earned on invest- ments)	53,778,810	4,207,635	57,986,445
Frequency standardization (Note): Interest. Portion of cost written off. Depreciation. Provision for nuclear research	7,823,293 8,155,021 13,035,967 405,065	5,786,017	7,823,293 8,155,021 18,821,984 405,065
Sinking fund provision—contribution to system capital	14,921,821	1,162,639	16,084,460
	162,732,083	23,659,187	186,391,270
Interchange of power with Northern Ontario Properties	5,028,044 3,066,481 4,846,645 589,547		5,028,044 3,066,481 4,846,645 589,547
Cost of power supplied to Rural Power District.	149,201,366 18,730,433	23,659,187 18,730,433	172,860,553
Total	130,470,933	42,389,620	172,860,553
Amounts Billed for Primary Power: Municipalities (at interim rates) Direct industrial customers and interconnected systems. Local distribution system customers. Rural customers.	108,316,447 24,070,062 103,149	43,475,224	108,316,447 24,070,062 103,149 43,475,224
Total	132,489,658	43,475,224	175,964,882
Excess of amounts billed over cost	2,018,725 2,018,725	1,085,604	3,104,329 2,018,725 1,085,604

Note: In 1959, proceeds of sales of 60-cycle secondary export energy were deducted from the cost of power, whereas these proceeds previously were included in amounts billed to direct industrial customers and interconnected systems. The provision for frequency standardization includes, as in prior years, an amount (\$2,844,626 in 1959) equal to the net revenue from the sale of this secondary export energy.

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario and municipalities supplied with power at cost

STATEMENT OF OPERATIONS for the Year Ended December 31, 1959

	Customers served for the account of the Province of Ontario			Munici-	
	Rural Power District	Other customers	Total	palities supplied with power at cost	Total
Cost of Primary Power:	\$	\$ 572,723	\$ 572,723	\$	\$ 572,723
Operation, maintenance and administrative expenses Interest (including interest on longterm liabilities and reserves, less	2,018,314	13,201,532			
interest earned on investments). Frequency standardization:	745,191	12,373,785			13,118,976
Interest	1,040,507	187,625 218,114 2,760,623 94,935	218,114 3.801,130		187,625 218,114 3,801,130 94,935
Sinking fund provision—contribution to system capital		3,383,648	3,580,205		3,580,205
Interchange of power with Southern	4,000,569	32,792,985	36,793,554		36,793,554
Ontario System		5,028,044 924,279	5,028,044 <i>924,279</i>		5,028,044 924,279
matured sinking funds Withdrawal from general stabiliza-		721,803			721,803
tion of rates reserve					903,685
Cost of power to municipalities		35,271,262			, ,
supplied at cost	2 722 104	3,342,534		3,342,534	
Power District		2,722,194			297,324
Costs after withdrawals aggregating \$1,201,009 from stabilization of rates reserve		29,206,534	35,929,297	3,045,210	38,974,507
Amounts Billedfor Primary Power: Municipalities supplied with power at cost (at interim rates) Fixed-rate municipalities		1,892,748	1 802 748	3,080,071	3,080,071
Direct industrial, and other customers					1,892,748 24,481,360
Local distribution system customers Rural customers		2.910.612	2.910.612		2,910,612 6,350,726
Total	6,350,726	29,284,720	35,635,446	3,080,071	38,715,517
Excess or <i>deficiency</i> of amounts billed over cost	372,037	78,186	293,851	34,861	258,990
Credited to municipalities on annual adjustment				34,861	34,861
Transferred to Statement of Surplus			293,851		293,851
Statement of Surply Balance at credit January 1, 1959 Deduct balance transferred from December 31, 1959 Balance at credit December 31, 1959.	Statement o	of Operation	s for the	year ended	293,851

THE HYDRO-ELECTRIC POWER

FUNDED DEBT AS AT

		TONDED 1	JEDI AS AI
Date of maturity	Callable on or after	Date of issue	Interest rate
PAYABLE IN CANADIAN FUN	DS—Guaranteed as to princ	cipal and interest by the Pro	vince of Ontario:
			per cent
January 1, 1960	January 1, 1955	January 1, 1945	3
February 15, 1962	3.5 1	February 15, 1957	43/4
March 1, 1963	March 1, 1961	March 1, 1948	3
March 1, 1963 October 15, 1963	March 1, 1962	March 1, 1955 October 15, 1958	3
October 15, 1963 May 15, 1964	May 15, 1962	May 15, 1954	4 3
May 15, 1964	11149 10, 1702	November 15, 1957	5
July 2, 1964	July 2, 1960	July 2, 1948	3
October 15, 1964	October 15, 1963	October 15, 1956	41/2
April 1, 1965	April 1, 1964	April 1, 1957	5 2
December 15, 1965	December 15, 1963	December 15, 1948	3
January 15, 1966	January 15, 1964	January 15, 1956	33/4
March 1, 1966	March 1, 1965	March 1, 1958	4
May 1, 1966	May 1, 1964	May 1, 1951	$\frac{31}{2}$
January 15, 1967 March 15, 1967	January 15, 1965 March 15, 1964	January 15, 1952 March 15, 1953	4
March 15, 1967 April 1, 1967	April 15, 1964	April 1, 1947	$\frac{4\frac{1}{4}}{2\frac{3}{4}}$
April 1, 1967	April 1, 1965	April 1, 1949	3 3
November 1, 1967	November 1, 1964	November 1, 1952	41/4
November 1, 1967	November 1, 1964	November 1, 1952	41/4
January 15, 1968	January 15, 1966	July 15, 1949	3
April 15, 1968	April 15, 1966	April 15, 1952	4
October 1, 1968	October 1, 1965	October 1, 1947	23/4
July 1, 1969	T. 1 45 4000	July 1, 1959	53/4
July 15, 1969 July 15, 1969	July 15, 1966	July 15, 1953	414
July 15, 1969 November 1, 1969	July 15, 1966 November 1, 1967	July 15, 1953 November 1, 1949	41/4
January 1, 1970	1, 1907	January 1, 1930	43/4
April 1, 1970	April 1, 1968	April 1, 1950	3
October 15, 1970	October 15, 1969	October 15, 1958	4½
June 1, 1971	June 1, 1961	June 1, 1946	23/4
June 15, 1973	June 15, 1971	June 15, 1950	3
July 15, 1974	July 15, 1972	July 15, 1956	4
October 15, 1974	October 15, 1972	October 15, 1956	$4\frac{1}{2}$
August 15, 1975	August 15, 1972	February 15, 1957	43/4
January 15, 1976 November 15, 1976	January 15, 1974 November 15, 1974	January 15, 1956 November 15, 1957	4 5
March 1, 1977	March 1, 1975	March 1, 1955	31/2
April 1, 1977	April 1, 1974	April 1, 1957	5
March 1, 1978	March 1, 1976	March 1, 1958	41/2
October 15, 1978	October 15, 1976	October 15, 1958	5 2
May 15, 1979	May 15, 1974	May 15, 1954	3½
July 1, 1979	0 . 1	July 1, 1959	534
October 15, 1979	October 15, 1974	October 15, 1954	3½
PAYABLE IN UNITED STATE	s FUNDS—Held by Provinc	ce of Ontario and having ter	rms identical with
March 15, 1960	March 15, 1959	March 15, 1954	2.60
March 15, 1961	March 15, 1959 March 15, 1959	March 15, 1954	2.65
March 15, 1962 March 15, 1963	March 15, 1959	March 15, 1954	2.70
March 15, 1963 March 15, 1964	March 15, 1959 March 15, 1959	March 15, 1954	23/4
May 15, 1971	May 15, 1959	March 15, 1954 May 15, 1951	2.80
September 1, 1972	September 1, 1956	September 1, 1951	31/4
February 1, 1975	February 1, 1958	February 1, 1953	31/4
November 1, 1978	November 1, 1958	November 1, 1953	35/8
March 15, 1980	March 15, 1959	March 15, 1954	31/8
May 15, 1981	May 15, 1961	May 15, 1956	37/8
February 1, 1984	February 1, 1969	February 1, 1959	43/4
Total funded debt (at par of exchange)		
Outstanding at January 1,	1959	Summary of changes	in funded debt
Less redemptions during y	ear		
Add new bond issues durin	g year		
Outstanding at December	31, 1959,		
3 2	,		

COMMISSION OF ONTARIO

DECEMBER 31, 1959

Southern Ontario System	cipal outstanding December 31, 19 Northern Ontario Properties	Total
	ontario Properties	Total
\$	\$	\$
	3,783,000	3,783,000
8,496,500	2,990,000	11,486,500
23,234,000	7,343,000	30,577,000
22,936,000 13,020,000	6 700 000	22,936,000
13,187,500	6,700,000 902,000	19,720,000
3,589,500	9,598,000	14,089,500 13,187,500
26,157,500	13,371,500	39,529,000
13,024,500		13,024,500
16,427,500	1,716,000	18,143,500
43,432,500	2.046.700	43,432,500
11,693,000 31,210,500	2,016,500	13,709,500
22,920,000	6,157,500 5,011,000	37,368,000
46,697,500	412,500	27,931,000 47,110,000
35,985,000		35,985,000
10,678,455	3,996,545	14,675,000
11,363,000	32,244,000	43,607,000
32,736,000	1.040.000	32,736,000
20,246,500 37,000,000	1,812,000	22,058,500
45,988,500	6,300,000	43,300,000
13,450,000	5,800,000	45,988,500
10,000,000	3,000,000	19,250,000 13,000,000
34,124,000		34,124,000
24,829,000		24,829,000
38,000,000	11,500,000	49,500,000
11,697,500	F 300 000	11,697,500
48,263,000 3,700,000	5,300,000	53,563,000
13,745,000	1,800,000 4,290,000	5,500,000
52,000,000	2,300,000	18,035,000 54,300,000
42,670,000	7,000,000	49,670,000
26,740,000		26,740,000
25,300,000	12,000,000	37,300,000
42,500,000	7,500,000	50,000,000
10,875,000	25,230,000	36,105,000
27,000,000 73,500,000	13,000,000 7,900,000	40,000,000
30,100,000	6,400,000	81,400,000 36,500,000
33,000,000	16,500,000	49,500,000
31,500,000	3,500,000	35,000,000
28,000,000	9,000,000	37,000,000
41,975,000	8,000,000	49,975,000
1,152,992,455	_254,373,545	1,407,366,000
ssues sold in the United States b	y the Province of Ontario on behalf	of the Commission:
263,000		263,000
		808,000
808,000		000.000
808,000 3,603,000 2,825,000		3,603,000 2,825,000
808,000 3,603,000 2,825,000 2,890,000		3,603,000 2,825,000 2,890,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000	2,890,000	3,603,000 2,825,000 2,890,000 49,393,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 43,307,000		3,603,000 2,825,000 2,890,000 49,393,000 43,307,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 43,307,000 47,811,000	2,890,000	3,603,000 2,825,000 2,890,000 49,393,000 43,307,000 47,811,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 43,307,000	2,890,000	3,603,000 2,825,000 2,890,000 49,393,000 43,307,000 47,811,000 49,010,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 43,307,000 47,811,000 44,010,000	2,890,000	3,603,000 2,825,000 2,890,000 49,393,000 43,307,000 47,811,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 43,307,000 47,811,000 44,010,000 29,920,000	2,890,000	3,603,000 2,825,000 2,890,000 49,393,000 43,307,000 47,811,000 49,010,000 29,920,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 43,307,000 47,811,000 44,010,000 29,920,000 41,133,000	2,890,000 5,000,000 3,320,000	3,603,000 2,825,000 2,890,000 49,393,000 43,307,000 47,811,000 49,010,000 29,920,000 44,453,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 47,811,000 44,010,000 29,920,000 41,133,000 57,000,000	2,890,000 5,000,000 3,320,000 18,000,000	3,603,000 2,825,000 2,890,000 49,393,000 43,307,000 47,811,000 49,010,000 29,920,000 44,453,000 75,000,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 47,811,000 44,010,000 29,920,000 41,133,000 57,000,000 320,073,000	2,890,000 5,000,000 3,320,000 18,000,000 29,210,000 283,583,545	3,603,000 2,825,000 2,890,000 49,393,000 47,811,000 49,010,000 29,920,000 44,453,000 75,000,000 349,283,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 47,811,000 44,010,000 29,920,000 41,133,000 57,000,000 320,073,000 1,473,065,455 Juring year ended December	2,890,000 5,000,000 3,320,000 18,000,000 29,210,000 283,583,545	3,603,000 2,825,000 2,890,000 49,393,000 47,811,000 49,010,000 29,920,000 44,453,000 75,000,000 349,283,000 1,756,649,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 47,811,000 44,010,000 29,920,000 41,133,000 57,000,000 320,073,000 1,473,065,455	2,890,000 5,000,000 3,320,000 18,000,000 29,210,000 283,583,545 31, 1959 \$258,227,045	3,603,000 2,825,000 2,890,000 49,393,000 47,811,000 49,010,000 29,920,000 44,453,000 75,000,000 349,283,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 47,811,000 44,010,000 29,920,000 41,133,000 57,000,000 320,073,000 1,473,065,455 during year ended December \$1,388,008,955	2,890,000 5,000,000 3,320,000 18,000,000 29,210,000 283,583,545 31, 1959 \$258,227,045 4,643,500	3,603,000 2,825,000 2,890,000 49,393,000 47,811,000 49,010,000 29,920,000 44,453,000 75,000,000 349,283,000 1,756,649,000
808,000 3,603,000 2,825,000 2,890,000 46,503,000 47,811,000 47,811,000 44,010,000 29,920,000 41,133,000 57,000,000 320,073,000 1,473,065,455 during year ended December \$1,388,008,955 9,943,500	2,890,000 5,000,000 3,320,000 18,000,000 29,210,000 283,583,545 31, 1959 \$258,227,045	3,603,000 2,825,000 2,890,000 49,393,000 47,811,000 49,010,000 29,920,000 44,453,000 75,000,000 349,283,000 1,756,649,000

THE HYDRO-ELECTRIC POWER

ADVANCES FROM THE PROVINCE OF

Repayable to the Province in accordance with the terms of Province

	Date of maturity	Description	Interest rate		
June	15, 1960-1968	Annuity bonds Annuity bonds Annuity bonds Annuity bonds Bonds Annuity bonds	per cent 4 4 ¹ / ₂ 4 ¹ / ₂ 4 5		
		Summary of changes in adva			
		9			
Balances of	of advances at December 31, 1	1959			

COMMISSION OF ONTARIO

ONTARIO AS AT DECEMBER 31, 1959

of Ontario bonds issued in part for the purposes of the Commission

Balances of advances outstanding December 31, 1959 (Payable in Canadian, United States, or Sterling funds)

Southern Ontario System	Northern Ontario Properties	Total
\$	\$	\$
4,449,232	300,496	4,749,728
3,929,093	952,207	4,881,300
2,272,903	558,320	2,831,223
2,878,202	1,062,184	3,940,386
11,510,296	2,583,807	14,094,103
25,039,726	5,457,014	30,496,740

of Ontario during year ended December 31, 1959

\$37,248,432 12,208,706	\$7,993,994 2,536,980	\$45,242,426 14,745,686
\$25,039,726	\$5,457,014	\$30,496,740
		And the second s

SECTION III

THE COMMISSION'S CUSTOMERS

In the fulfilment of the Commission's continuing program of sales promotion to which reference was made in the Chairman's letter of transmittal for the 1958 Annual Report, a Sales Promotion Division was established in the Head Office organization early in 1959. Departments specializing in commercial-industrial, farm, and residential sales, market analysis, and sales training give their full attention to the objectives of the program and provide guidance and assistance to field forces engaged in sales promotion activity in the regions. Shortly thereafter the name of the former Administration Branch was changed to Production and Sales Branch. It now includes the Consumer Service, Operations, Sales Promotion, and Security Divisions.

Sales Promotion Activity in 1959

Following the initial stages of organization and the engagement of a basic staff with a background of experience in selling, market analysis, and sales training, special educational and promotional programs were developed for presentation to residential, commercial, farm, and industrial customers. The free exchange of information and advice has enabled the Commission, the municipal utilities, and the manufacturers and distributors of electrical appliances to move forward on a co-ordinated sales promotion plan. Special emphasis is being given to the

promotion of electric water-heating and space-heating, but other aspects of the economy, convenience, and comfort of electrical living are not being overlooked.

Advertising has been carried by the daily and weekly press, on radio and television, and other media appropriate for the purpose. During the year the Commission's new mobile display coach effectively presented the "Live Better Electrically" campaign at exhibitions and fall fairs and at curb-side demonstrations outside Commission and municipal utility offices. In some respects the coach is a modern counterpart of the "Adam Beck circus" that toured the Province in the days when



The Commission's demonstration coach emphasizes the electrical way of living. Over 50 feet in length and carrying a wide range of electrical appliances, it was inspected in 1959 by 110,000 visitors at 67 different locations throughout Ontario.

electrical service was relatively new. By contrast with its early predecessor, the modern coach displays the great variety and completeness of the service now available. In addition to an all-electric kitchen, it contains displays of other home, farm, and workshop equipment, including house-heating and water-heating equipment, electric motors, and power tools.

The Hydro building at the Canadian National Exhibition in Toronto featured an all-electric home, designed to meet the requirements of the electrical industry's Gold Medallion home. This medallion standard, in addition to specified requirements in wiring and circuit arrangement, includes electric heating and the incorporation of at least three major appliances such as water-heater, range, washer, dryer, and refrigerator. Such standards, which ensure a high degree of comfort, convenience, and safety in the home, are being vigorously promoted with builders, contractors engaged in construction in planned subdivisions, as well as with home owners.

An important outcome of the promotional activity in electric heating was the organization of the Electric Heating Association of Ontario following a series of conferences with representatives of manufacturers, distributors, and electrical contractors. House-heating installations that conform with standards established by the Association have met with unqualified customer satisfaction. At the end of the year, 354 houses were heated entirely by electricity and there is every expectation that the number will be substantially increased by the end of 1960. In addition, electric heating is being installed in a number of schools, apartment buildings, motels, and other public buildings.

The campaign to increase the use of flat-rate water-heaters in rural areas has also been markedly successful, largely as the result of the Commission's offer of rental units to its customers. Almost 15,000 water-heaters were installed during 1959.

During the year, over a hundred schools in the Province received assistance under a co-ordinated plan to equip home economics classrooms with the best in major electrical appliances. The plan, arranged in co-operation with the appliance manufacturers, is designed to acquaint young people with the manifold advantages of the well-equipped electrical home.

Deliveries of Power in Wholesale Quantities

During 1959 the Commission delivered in bulk 32,291,081,869 kilowatthours of electric energy to municipal systems, interconnected utility systems, the rural operating areas, and direct industrial customers. This represents an increase of 11.9 per cent over deliveries in 1958. Deliveries of energy were made in 1959 as follows: 52.5 per cent to the municipal electrical utilities and the local systems owned and operated by the Commission, 8.2 per cent to the rural operating areas, 27.6 per cent to the Commission's direct industrial customers, and 11.7 per cent to certain interconnected utilities for resale. The energy delivered to the direct industrial customers and the interconnected utilities included 8,966,838,533 kilowatt-hours of primary and 3,718,607,550 kilowatt-hours of secondary energy. Comparative figures for wholesale deliveries in 1958 and 1959 appear in the table on page 115, and the supplementary table on page 116 traces the distribution of these kilowatt-hours to ultimate customers served by the Commission and the associated municipal utilities.

The commentary that follows is confined, with one exception, to the whole-sale aspects of the Commission's sales. The exception is the analysis of rural distribution which is included with the report on bulk supply to the rural operating areas so that the Commission's rural service may be viewed in its entirety. Supporting statistics for this commentary, the schedule of rates and a brief description of the classes of service, are in Appendix III. Retail distribution of electricity by the municipal utilities and Commission-owned local distribution systems is the subject of the municipal service supplement beginning on page 187. The number of ultimate customers served by the Commission and the associated municipal utilities in 1959 was 1,830,453.

MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

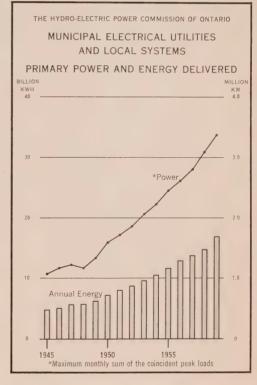
A total of 382 municipal systems were being served by the Commission's transmission line network at the end of 1959. The town of Campbellford and the village of Avonmore became cost-contract customers of the Commission on July 1 and October 1 respectively. Both municipalities had been receiving power previously from the Commission, Campbellford on a temporary basis and Avonmore through rural service. Following annexation of the areas, service to the village of Bronte was taken over on January 1, 1959 by Trafalgar Township Public Utilities Commission, and service to the town of La Salle by the Sandwich West Township Hydro System. The number of municipalities served under cost contract in the Southern Ontario System remained 327. Ten utilities,

formerly served in the Northeastern Division of the Northern Ontario Properties under fixed-rate contracts, became cost-contract customers during 1959. They were Cache Bay, Capreol, Cochrane, Kapuskasing, Larder Lake Township, Latchford, McGarry, North Bay, Sturgeon Falls, and Thessalon. Together with the eight cost-contract utilities in the Northwestern Division they bring the total number of utilities served at cost in the Northern Ontario Properties to 18, and the combined system total to 345. An additional 9 utilities in the Northern Ontario Properties were served under fixed-rate contracts. The number of local systems served in the Province as a whole was reduced from 29 to 28 when Ignace was transferred to supply by rural facilities.

The municipal utilities are billed monthly at an interim rate per kilowatt of peak load. The monthly peak load for a municipal utility is the maximum

average demand over a period of twenty consecutive minutes in the month. As the system peak load usually occurs in December, the peak loads for that month are given for municipal systems in the table of load statistics in Appendix I. The sum of these loads in 1959 was 3,368,571 kilowatts, an increase of 8.1 per cent over the 3,117,381 kilowatts supplied in 1958. The energy supplied to the municipal utilities and local systems in 1959 was 16,950,730,294 kilowatthours, an increase of 13.8 per cent over the 14,889,000,611 kilowatthours supplied in 1958.

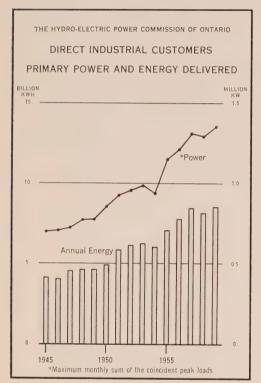
The identity of the utilities as separate units is preserved in the tables of operating statistics and financial reports that form the larger part of the municipal service supplement beginning on page 196. The books of account from which the financial information is derived are kept by the utilities in accordance with a



standard accounting system designed by the Commission for use by all utilities served under cost or fixed-rate contracts. These records are periodically inspected by the Commission's municipal accountants and from time to time adjustments and improvements in accounting and office routine are recommended as the requirements of standardized methods may dictate. This type of work or supervision is directed towards ensuring the correct application of the standard accounting procedure and the uniform classification of revenues and expenditures, but it does not constitute an audit of the accounts.

DIRECT INDUSTRIAL CUSTOMERS AND INTERCONNECTED SYSTEMS

The industrial customers served directly by the Commission include mines in relatively isolated areas, and industrial customers of many types whose requirements for power may exceed the supply capability of the local rural or municipal facilities. In addition, the Commission has contracts governing the supply or the interchange of power with certain independent utilities both within and beyond the borders of the Province. Prior to 1958, sales to these interconnected systems were included in a miscellaneous category with sales to



industrial customers. As power utilities they are not industrial customers of the Commission in the generally accepted sense. They are, therefore, no longer included in the table of power and energy supplied to industrial customers and their loads have been deleted from the historical chart on this page. The number of direct industrial customers being supplied by the Commission at December 31, 1959 was 214 as compared with 205 at December 31, 1958.

The sum of the coincident primary peak loads of the Commission's industrial customers reached a monthly maximum of 1,352,923 kilowatts in November 1959, thereby registering an increase of 4.6 per cent over the January 1958 maximum of 1,292,918 kilowatts. The annual kilowatt-hour consumption in 1958 and 1959 is given by types of industry in the accompanying table, together with comparative figures for both

years on peak loads. Since the peak loads in any one month do not offer a satisfactory basis for comparing the activity of one industry with that of another, the table gives the average of the monthly peak loads for each type of industry.

Analysis of Primary Loads by Types of Industry

Total primary energy consumption by industrial customers served directly by the Commission resumed a moderate upward trend following a period of general decline in 1958. The sharpest increases occurred in the abrasives and the steel and metallurgical industries. The latter, after two years of falling consumption reflecting in part the effect of labour unrest in the industry, showed a rate of growth comparable with the best in many years, but has not yet regained ground lost since the industry's year of high consumption in 1952. The increase in base-metal mining load reversed the effect of a major strike in the industry

Primary Power and Energy Supplied to Direct Industrial Customers, by Types of Industry

	Average monthly	of the peak loads	Annual energy delivered			
Type of industry	1958	1959	1958	1959	Increase or decrease	
	kw	kw	kwh	kwh	per cent	
Pulp and Paper	303,672	321,417	2,055,636,239	2,106,173,551	2,5	
(a) Gold	87,544	88,216	585,592,708	588,023,334	0.4	
(b) Silver and Cobalt	3,741	3,350	19,523,266	16,996,035	12.9	
(c) Base Metals	197,466	229,890	1,302,267,006	1,579,973,022	21.3	
(d) Uranium	87,455	100,636	591,132,117	689,320,107	16.6	
(e) Non-metals	6,495	6,623	28,598,881	30,070,386	5.1	
Quarrying, Cement, and Basic Building						
Materials	40,539	37,748	234,504,442	218,196,911	7.0	
Steel and Electro-metallurgical	126,240	149,866	635,276,469	833,844,337	31.3	
Abrasives	52,809	67,883	403,893,727	542,296,500	34.3	
Chemical, Electro-chemical, and Cyanamid	209,854	172,417	1,614,423,720	1,321,705,925	18.1	
Grain Elevators and Milling	8,232	8,426	31,524,890	30,814,786	2.3	
Transportation Services and Communications	7,806	7,151	32,192,107	32,861,526	2.1	
Government Services and Institutions	22,300	24,267	128,294,169	140,380,176	9.4	
General Manufacturing	96,441	82,435	419,565,834	382,018,501	9.0	
Miscellaneous	7,073	5,521	35,471,660	26,979,934	23.9	
Total	1,257,667	1,305,846	8,117,897,235	8,539,655,031	5.2	

in 1958, and established a new maximum in annual energy consumption for this sector of the mining community. The apparent decline of 18.1 per cent in consumption in the chemical and electro-chemical industry is largely the effect of the transfer of one of the Commission's major industrial customers to service by a municipal electrical utility. If this customer had been served directly by the Commission in 1959, this industrial group would have shown a very satisfactory increase in energy consumption. General manufacturing, and the quarrying, cement, and basic building materials industry continued with some slight acceleration the declines they experienced in 1958, but other industrial groups showed some growth in load over 1958.

The corresponding primary peak and energy loads of the interconnected systems were 59,924 kilowatts in 1959 as compared with 57,403 kilowatts in 1958, and 427,183,502 kilowatt-hours in 1959 as compared with 422,991,041 kilowatt-hours in 1958. The peak load was higher than the 1958 peak by 4.4 per cent, and the energy load was higher by 1.0 per cent.

Secondary Energy Sales

Sales of secondary energy amounted in total to 3,718,607,550 kilowatt-hours, 3,357,968,650 kilowatt-hours being delivered to interconnected systems and 360,638,900 kilowatt-hours to direct industrial customers.

RURAL ELECTRICAL SERVICE

There was a net increase of 913 miles in rural primary distribution lines in service during 1959 as compared with an increase of 1,063 miles in 1958. A slower rate of construction in the Northern Ontario Properties was primarily

responsible for the difference. The net increase in number of customers served,



From this silo a farmer can feed 75 cows by pushing a button. Four hundred tons of ensilage stored here can be fed by electrically operated equipment into the manger under the projecting protective covering.

at 18,467, was very little short of the 1958 increase of 18,992, the accelerated growth in the Southern Ontario System being almost sufficient to offset the decline in rate in the north. Municipal annexations did not have so conspicuous an effect on rural operations in 1959 as they had in 1958 when there was a net reduction of nearly 5,000 rural customers in one region. The largest increases in numbers of customers in 1959 occurred in the Georgian Bay, Eastern, and Northeastern Regions; of the total increase of 18.467 customers, all systems, 89.3 per cent received a domestic type of service.

At the end of the year, 491,070 customers were being served over 47,351 miles of rural primary distribution lines. Farm service represented 28.7 per cent of the total number served,

hamlet and rural residential service 44.5 per cent, and summer cottage service 18.6 per cent.

Rural Power District

NET INCREASE IN MILEAGE OF PRIMARY LINES AND NUMBER OF
CUSTOMERS DURING 1959

		Number of customers							
	Miles of primary line		Resid	Residential		Summer			
System and Region		Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
SOUTHERN ONTARIO SYSTEM									
Western	6.24	13	211	624	130	2	150	27	1,157
West Central	31.16	5	232	1,044	126	5	205	23	1,630
Niagara	19.76	38	19	1,131	155	4	94	22	1,387
Toronto	26,68	14	197	1,028	83	3	47	31	1,375
Georgian Bay	184.04	158	622	644	147	71	2,116	12	3,770
East Central	191.12	118	283	442	4	71	1,708	10	1,744
Eastern	189.66	246	310	1,848	128	20	691	35	3,278
Total	648.66	478	1,874	5,877	765	176	5,011	160	14,341
NORTHERN ONTARIO									
PROPERTIES									
Northeastern	197.81	116	275	1.984	139	21	602	38	3,175
Northwestern	66.37	45	191	516	94	15	166	14	951
Total	264.18	71	466	2,500	233	36	768	52	4,126
Total—All systems	912.84	549	2,340	8,377	998	212	5,779	212	18,467

Italic figures indicate decreases.

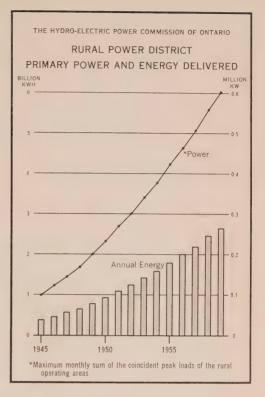
Load Growth

The monthly sum of the coincident peak loads of the 102 rural operating areas was 602,220 kilowatts in December 1959, an increase of 7.9 per cent over the 558,366 kilowatts in December 1958. Energy supplied to the areas during the year rose by 6.9 per cent from 2,482,696,066 kilowatt-hours in 1958 to 2,654,905,492 kilowatt-hours in 1959.

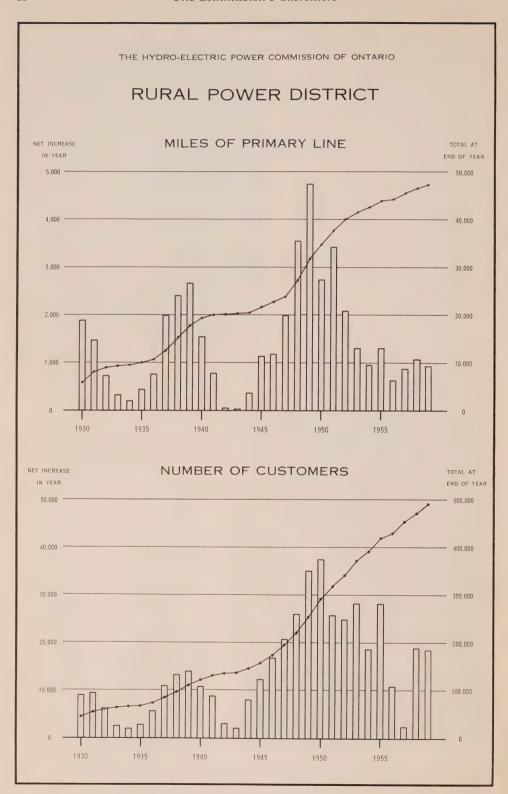
Increases in energy consumption were established by all five classes of rural service, all but industrial power service being in the range of 8.8 to 9.4 per cent. In all services but industrial power and summer service the general increase in consumption was accompanied by a notable increase in average monthly consumption per customer; since this normally implies greater consumption of kilowatt-hours at the lower promotional rates, it is



An electrically operated feeder facilitates the work of poultry farming. Feeding troughs are automatically replenished at regular intervals each day by the use of this time-clock-controlled storage bin.



reflected generally in declines in average cost per kilowatthour. Industrial power service, in which there was a 10 per cent increase in number of customers but only a 3.4 per cent increase in energy consumption, produced a 4.6 per cent increase in revenue, and with the decline in average consumption per customer, a slight variation upward in average cost per kilowatthour. It should be pointed out that the estimated consumption by flat-rate water-heaters, which is billed at low rates, is included in the calculation of these averages, and that the historical table on page 179 has been revised this year allowing for an estimated 16.8 hours' use of flat-rate heaters per day rather than 20 hours' use as heretofore.



Capital Investment

The net increase in the investment in rural distribution facilities at cost was \$15,035,287 in 1959. Out of a total investment in rural facilities of \$253,943,834 at the end of 1959, the Province had contributed \$114,862,748.

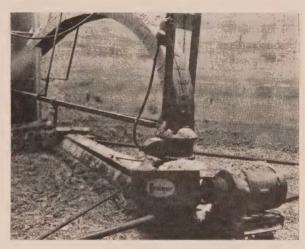
REPORTS FROM THE REGIONS

Western Region

The water-heater rental program in operation in municipalities in the Western Region during the year resulted in a considerable increase in the number of units installed. In Norwich a wired radio-control system for water-heaters was placed in service to provide for peak control of the water-heater load in the

municipality. Lower rates for fast-recovery flat-rate water-heaters were established in 29 municipalities in the region. Twenty municipalities established house-heating rates during the year, an indication of the growing interest in electric house-heating. Evidence of successful operation is revealed in general rate reductions which were put into effect by 17 municipal utilities.

Municipal electrical utilities in the Western Region in 1959 continued to improve and extend their distribution facilities to meet steadily in-



Ensilage is fed by an electric unloader to a revolving manger located at the foot of the silo. The back-breaking work of feeding cattle is taken over by electricity at a cost of only 8 cents per ton of fedder handled.

creasing demands for power. In Sandwich West Township a new 5,000-kva substation was installed to provide greater transformer capacity, and in Chatham, where 1,850 customers were added through annexation procedures, a 3,000-kva, bungalow-type substation was placed in service in the northern section of the city. An additional 2,000 kva of capacity was also provided in the western section of Chatham during 1959. In Windsor, four municipal substations were modernized with the installation of automatic reclosing equipment and a new 5,000-kva substation was under construction to serve domestic and commercial customers. Transformer capacity was also increased in Essex where a 3,000-kva substation was purchased from the Commission by the municipality, and in London where a further 4,500 kva was provided in the downtown section of the city. The new primary network in London, a two-year project, was nearly completed.

General improvements to distribution facilities were carried out also in St. Thomas, Sarnia, and Tillsonburg during 1959. A number of municipalities

in the region modernized their street-lighting systems, particularly in the business sections and on main thoroughfares. Mercury-vapour lighting units were installed at Arkona, Dresden, Ingersoll, and Sarnia, while fluorescent lighting was installed in Erieau, Erie Beach, and Essex. In St. Thomas a long-term program of converting series-type street lighting to multiple-type was continued. In Kingsville the offices of the municipal electrical utility were rehabilitated and wired throughout for electric heating. Even the pavement in front of the building will be electrically heated in winter to keep it clear of snow. New building and administrative facilities were provided at Dresden and at Windsor.

West Central Region

In the West Central Region, municipal electrical utilities vigorously promoted the use of electricity for water-heating and space-heating in 1959. During the year a further 18 municipalities instituted water-heater rental programs with good results. A number of electrically heated buildings were constructed in various municipalities in the region, including a 15-unit motel at Goderich. As an effective demonstration of an important aspect of its sales program, the Public Utilities Commission of Clinton equipped its new office building with electric space-heating. Effective promotion of the increased use of electricity has enabled 11 municipal utilities to introduce general decreases in rates to their customers.

Loads in the region continued to grow substantially during 1959, and in several municipalities it was necessary to expand the distribution facilities by extensions, improvements, and municipal substation construction. Utilities in Burlington, Dundas, Hamilton, Palmerston, and Simcoe added to their transformation facilities. Further transformer capacity became available in the region



The new offices and service headquarters of Trafalgar Public Utilities Commission

also when industrial customers in Acton, Burlington, Elmira, Hamilton, and Preston placed in service their own substations. An additional 1,000 kva was provided for McMaster University in Hamilton to supply an atomic reactor operated for research purposes. Extensive changes to improve municipal distribution systems were under way in Brantford Township, Clifford, Dublin, Hagersville, Hamilton, Paris, Stoney Creek, and Waterford. Street-lighting systems were modernized in Ayr, Brussels, Cayuga, Delhi, Dundas, Hamilton, Simcoe, and Stratford.

Niagara Region

The number of customers served by municipal electrical utilities in the Niagara Region in 1959 increased by approximately 2.5 per cent with a consequent increase in demands for electricity. To meet these demands, improvements and extensions were carried out generally to distribution systems in most municipalities throughout the region.

Municipal utilities took every opportunity to stress the advantages of using electricity, particularly for the heating of houses and other residential purposes. The introduction of water-heater rental programs by 8 municipalities, together with the favourable rates established for electric space-heaters in 12 municipalities, reinforced the message of electrical living. In the course of the year, electric heating service was provided for 32 houses, an apartment block, and a school.

Toronto Region

Growth in population and electrical loads with a consequent need for increased transformation and distribution facilities continued to be of major concern to almost all the municipal electrical utilities in the Toronto Region in 1959. Load growth in the Townships of North York and Scarborough, although not quite as rapid as in 1958, required a substantial increase in transformation capacity, including the construction of a total of 11 substations. The number of customers supplied by these two municipal utilities alone increased during the year by more than 14,600. Similar trends in loads and customers were evident in other municipalities throughout the region, and by the end of 1959 more than 22,000 customers in all had been added to the number being served. In spite of this rapid expansion, five utilities were able to introduce rate decreases during the year.

The general expansion of distribution systems in most municipalities included the placing of distribution facilities underground in new housing subdivisions in Etobicoke Township, Toronto, and Toronto Township. Secondary services in a new subdivision in Brampton will similarly be installed underground. The underground conduit system in Toronto and Leaside was extended during the year by the installation of 29 miles of duct and 13 underground transformer vaults. The combined peak demand for these two municipalities in February, 1959 amounted to 591,622 kilowatts, an increase over the peak demand in 1958 of 3.8 per cent. The improvement to low-voltage facilities carried out in Toronto to supply the increased demands included the installation of 18,500 kva of transformer capacity.



Throughout Ontario, neat modern offices are located in rural operating areas to serve Commission customers.

Early in the year the municipalities in this region began a sales promotion campaign. Water-heater rental and service plans were put into effect by municipal electrical utilities in Markham, Oakville, Port Credit, Scarborough Township, and Woodbridge. A total of 67 houses throughout the region and several commercial buildings were equipped with electric heating.

Georgian Bay Region

In Barrie and Midland, new 3,000-kva substations were placed in service, and in Arthur the substation capacity was increased from 600 kva to 2,000 kva. A number of customer-owned substations were also built or increased in size in Alliston, Barrie, Beaverton, and Midland. Extensive rehabilitation was carried out to distribution systems in Creemore and Thornton. In Priceville the entire distribution system was changed over to 8-kv operation to accord with changes in distribution voltage levels in the area.

During the year, general reductions in resale rates were introduced in Burk's Falls, Magnetawan, Midland, Penetanguishene, Port McNicoll, Port Perry, Ripley, Russell, Sundridge, and Windermere. Rates for flat-rate water-heaters were similarly reduced in Bracebridge, Collingwood, Creemore, Holstein, Thornbury, Thornton, Uxbridge, Victoria Harbour, and Woodville. The promotion of electric heating, carried out as part of the general promotion work throughout the Province, met with encouraging results in the Georgian Bay Region. Electric heating equipment was installed in a total of 41 houses and 15 commercial buildings. Ten houses at present under construction in the region will also make use of electric heating.

East Central Region

In the East Central Region the steady growth of municipal loads in 1959 resulted in the placing in service of new transformer capacity in Lindsay, Madoc, Napanee, and Peterborough. The distribution systems of Bobcaygeon and Frankford were extensively rehabilitated. Street-lighting systems in Bath, Marmora, Pickering, and Wellington were improved with the addition of fluorescent lighting units. More than 1,900 rural customers were transferred to municipal service when 3,600 acres of adjacent townships were annexed by Belleville.

The promotional activity of municipal utilities in the region resulted in electric heating equipment being installed in 12 houses and 3 commercial dwellings

in 1959. Special rates for house-heating service were provided by 35 municipal utilities, while 11 utilities carried out general retail rate adjustments. Sales of electricity were further encouraged by the adoption of new rate schedules for flat-rate waterheaters by 24 municipal electrical utilities and the institution of a waterheater rental plan in 14 municipalities.

Commencing on July 1, 1959 the town of Campbellford was supplied with power under a cost contract with the Commission.

Eastern Region

The activities of municipal electrical utilities in the Eastern Region during 1959 resulted in a substantial number of improvements and extensions to distribution systems throughout the region. In Ottawa, where the number of customers served in 1959



Freezing rains in late December resulted in heavy ice formations on transmission and distribution lines in southern Ontario. Commission linemen worked round the clock under hazardous conditions to restore service as soon as possible.

increased during the year by nearly 5 per cent to 84,416, three new substations were placed in service and the capacity of a fourth was increased. The additional transformer capacity provided amounted to 26,000 kva. Extensions were made also to the city's underground network. Approximately 7,000 feet of duct were placed underground, together with some 18 miles of 12-kv and 5-kv cable and transformer capacity totalling 14,350 kva. Extensions to the 4-kv underground network in Brockville were continued in 1959. Preparatory work there was also under way for the construction of a fifth municipal substation which will supply power at 8 kv and will permit the integration of adjoining rural areas with a minimum of change. Additional transformer capacity was supplied in Smith's Falls during the year when a new 3,000-kva substation was placed in service to meet increased demands for power. In Alfred and Vankleek Hill the municipal distribution systems were changed over



NUCLEAR POWER DEMONSTRATION — On the Ottawa River close to the Commission's Des Joachims Generating Station, a nuclear power station is under construction. The first such station in Canada, it will have a capacity of 20,000 kilowatts.

to 8-kv operation, thus eliminating the necessity of providing additional stepdown transformation facilities.

Improvements to municipal distribution systems in 1959 included the extension and modernization of street lighting, particularly on main thoroughfares and in commercial sections. During the year, fluorescent lighting units were installed in Alfred, Carleton Place, Casselman, Eganville, Hawkesbury, Iroquois, Lanark, Prescott, and Vankleek Hill. In Ottawa alone, 599 new lighting units were installed.

Throughout 1959, municipalities in the Eastern Region continued to urge customers to take advantage of low-cost power and the wide variety of electrical equipment generally available. Water-heater rental plans, already widespread in the region, were put into effect in Alexandria, Chesterville, Kemptville, Lancaster, L'Orignal, Newboro, and Vankleek Hill during the year. In Brockville, 300 units were installed under a rental plan. Sales were further promoted when rates to customers in Casselman, Chalk River, Lanark, Merrickville, Morrisburg, Newboro, Perth, Renfrew, Vankleek Hill, and Westport were reduced.

The village of Avonmore purchased the local distribution system from the Commission, and on October 1, the municipal utility commenced purchasing power at cost.

Northeastern Region

Distribution facilities in a number of municipalities in the Northeastern Region are owned and operated by the Commission. Improvements to streetlighting systems were carried out in Blind River, Englehart, Kirkland Lake, Mattawa, and Powassan. In Blind River, and in King Kirkland Townsite, the Commission undertook improvements to distribution networks which resulted in greater security of service. Similarly, improvements were carried out by municipal utilities in Coniston, Thessalon, and West Ferris Township. In North Bay, Sturgeon Falls, and West Ferris Township, additional transformer capacity was provided to meet increased demands for power. In North Bay the first Gold Medallion home in the region was constructed during the year.

Arrangements were made in 1959 for the supply of power at cost to 10 of the 17 municipalities which at the beginning of the year were supplied with power at fixed rates. New contracts were negotiated with Cache Bay, Capreol, Cochrane, Kapuskasing, Larder Lake Township, Latchford, McGarry, North Bay, Sturgeon Falls, and Thessalon. Transmission facilities to serve Espanola at cost will be completed next year.

Northwestern Region

A number of projects designed to improve service to customers were undertaken by municipal electrical utilities in the Northwestern Region in 1959. Construction was started for a new office building in Fort William and for warehousing and servicing quarters in Dryden. In Schreiber Township the distribution network was changed over to operation at 4,160 volts grounded. Previously it had been operated at 2,400 volts ungrounded. The capacity of the Commission's distributing station at Nipigon which supplies power to customers in Nipigon Township and Port Arthur Rural Operating Area was doubled during the year to 4,000 kva.

Reductions were made during 1959 in retail rates to customers in Red Rock and in Nipigon Township.

PUBLIC RELATIONS AND SERVICES TO CUSTOMERS

With the support of the Ontario Municipal Electric Association, the Commission and the Ontario School Trustees' and Ratepayers' Association jointly sponsored public speaking contests in elementary and secondary schools of the Province. Estimates indicate that some 75,000 students participated in the contest.

Plantpower Program in Industry

The Commission's staff have worked closely with the Canadian Electrical Manufacturers Association and the Electrical Bureau of Canada in what is known as a "Plantpower Program". The program provides for group discussion with industrial customers regarding every aspect of the supply of electric power with a view to improving service and the performance of electrical equipment.

Inspection

Electrical installations are governed by regulations made by the Commission under The Power Commission Act. During the year there were numerous

enquiries regarding interpretation of rules and regulations, and, in particular, there was a marked increase in the number of enquiries concerning the electrification of summer residences and other rural installations. In order to deal appropriately with such enquiries, and to further the cause of electrical safety, the Commission published a manual entitled *Information Guide for the Electrification of Summer Cottages*.

Plans for high-voltage installations in commercial and industrial establishments are regularly reviewed by the inspection staff at Head Office before approval of actual installations is given by field inspectors.

Electrical inspection reports indicate that electrical accidents during the year claimed the lives of fifteen persons. Investigations into the causes of numerous fires established that at least seventeen were due to electrical causes such as defective wiring. If other fires were of electrical origin, proof could not be established on the evidence available.

The Rules and Regulations under The Power Commission Act require that in general electrical equipment sold to the public be submitted for approval by the Canadian Standards Association Testing Laboratories. The Association's approval reports are reviewed in detail to ensure that all equipment conforms with Commission requirements respecting grounding, connection of supply, suitability for use in specific locations, and other installation problems not included in the Canadian Electrical Code Part II specifications, upon which Canadian Standards Association approval is based. The Commission's adoption of the approval report constitutes approval of the equipment for use in the Province. Approximately 3,000 reports were received and adopted under this procedure in 1959.

The Commission, as one of nine Provincial inspection authorities, participated in activities sponsored by the Canadian Standards Association to study current codes and practices with a view to establishing minimum requirements for the construction and installation of electrical equipment.

Lighting

Academy of Lighting Arts classes have been given in various centres. Lighting arrangements have been provided for three Gold Medallion houses and over 500 recommendations were made for lighting systems in public buildings.

SECTION IV

FREQUENCY STANDARDIZATION

In 1949 when the Commission began the formidable task of standardizing electrical equipment in Ontario for operation at 60 cycles, approximately 757,000 customers in four regions in southwestern Ontario and other customers in fairly widespread parts of the northeastern section of the Province were being supplied with power at a frequency of 25 cycles per second. Some customers in the Hamilton-Niagara area were being served at 66% cycles. The standardization program originally contemplated was limited to the Niagara Division, which included the four regions extending roughly west from the vicinity of Toronto to Windsor in the southwestern part of the Province. The equipment of all customers in this area, except heavy industries around Niagara Falls and the steel mills at Hamilton, was to be standardized at 60-cycle frequency and the whole operation was expected to extend over a period of 15 years. Instead, ten years and two months later, the work of standardization was completed, including the equipment of customers in the Northeastern Division. More than 7 million items of electrical equipment had been changed over for operation at 60-cycle frequency or replaced by comparable 60-cycle items. The total cost of the work completed and chargeable to the Commission was \$352.3 million, of which \$149.4 million has been charged to reserves and to the cost of power and \$202.9 million remains to be charged to the cost of power in future years.

Early Power Developments

The complexity of the undertaking was comparable in many ways to that of a large-scale military operation. The problem had its origin in the early development of power resources in Ontario. Two private power companies,

the Canadian Niagara Power Company, and the Ontario Power Company of Niagara Falls, first developed electric power alternating at 25 cycles from generating stations on the Niagara River shortly after the turn of the century.

PROGRESS OF FREQUENCY STANDARDIZATION BY CLASSES OF SERVICE

	Services standardized Customer mo		er moves	Frequency-sensitive moves items standardized†		
Class of service ,	During 1959	Total to Dec. 31, 1959	During 1959	Total to Dec. 31, 1959	During 1959	Total to Dec. 31, 1959
Domestic: Southern Ontario System Northeastern Division	20,037	759,530 17,722			148,194	4,035,960 78,847
Total domestic	20,037	777,252	1,047*	139,127*	148,194	4,114,807
Commercial: Southern Ontario System Northeastern Division		89,325 2,365			27,236	1,046,987 24,600
Total commercial	1,752	91,690	46*	2,944*	27,236	1,071,587
Power: Southern Ontario System	259	15,102 191			5,070	818,725 2,094
Total power	259	15,293	8*	506*	5,070	820,819
Total Southern Ontario System	22,048	863,957 20,278			180,500	5,901,672 105,541
Grand Total	22,048	884,235	1,101*	142,577*	180,500	6,007,213

^{*}These figures combine customer moves chargeable to the program in the Southern Ontario System with those chargeable to the program in the Northeastern Division.

Both companies planned to export the greater part of their output to the nearby 25-cycle power market in the United States. A third organization, the Electrical Development Company of Ontario, Ltd., commenced operation in the same area in 1906 with the intention of transmitting a large part of its output to Toronto, some 90 miles away. This was considered long-distance transmission at the time, and for this purpose a frequency of 25 cycles was preferred. Furthermore, electric current alternating at 25 cycles per second had definite advantages for the operation of large motors, rotary converters, and for other similar applications. These advantages, long since nullified as a result of advances in electrical engineering, naturally prompted the early developers of electric power to choose 25-cycle current as the most appropriate for their immediate purposes. The power developments undertaken on the Niagara River were therefore built for 25-cycle operation. In 1910, when The Hydro-Electric Power Commission of Ontario first supplied municipal customers under the terms of The Power Commission Act, its source of power was the 25-cycle facilities of the Ontario Power Company at Niagara Falls. During the ensuing 12 years the Commission acquired the Ontario Power Company and the Electrical Development Company by purchase and constructed its own Queenston-Chippawa Development on the Niagara River. By 1922 the 25-cycle frequency had become firmly established as the operating frequency in southwestern Ontario. In the northeastern section

[†]In addition to the frequency-sensitive items actually altered for operation at 60 cycles, a total of 1,007,780 small 25-cycle appliances were exchanged at Commission depots for similar 60-cycle equipment. In 1959 there were 40,687 exchanges of this kind.

of the Province also, the Commission acquired generating facilities which had been developed at 25 cycles by private organizations. There, too, with the passage of time and the gradual expansion of electrical facilities, the use of 25-cycle power had become widespread. An inventory taken in 1947 indicated that 784,300 customers would require standardization of their equipment in the program for southern Ontario. An estimate made in 1956, at the time the decision was made to extend standardization to the Northeastern Division, indicated that approximately 18,800 customers in that Division were using electrical equipment operated at 25 cycles.

The Need to Standardize

During the fifty years or more intervening between the early Niagara developments and the inauguration of frequency standardization in Ontario, the trend over the North American Continent as a whole had been towards use of a 60-cycle frequency. Electrical service over a large part of the Province was also provided at 60 cycles. From time to time during this period, critical situations developed which prompted the Commission to consider standardizing frequency, but each time the decision for one reason or another was postponed.



FREQUENCY STANDARDIZATION

Upper left: More than one million small electrical appliances were exchanged at clock and fan depots during the standardization program. The depots were conveniently located, and open daily to customers.

Lower left: In the workshops at the A. W. Manby Service Centre, thousands of 25-cycle motors were rewound for operation at 60 cycles.

Upper right: Sixty-cycle motors are here being tagged and assembled by technicians. They replaced 25-cycle motors of customers whose equipment was standardized for operation at 60 cycles.

Lower right: Mobile frequency-changers were located at strategic points to maintain service to customers during standardization operations.

The advantages of standardization, however, became increasingly apparent with the passage of the years. The progressive integration of isolated systems, perhaps eventually into a province-wide power grid, would require a standardized frequency for maximum flexibility of operation. Similarly, operation at 60 cycles would permit freedom of interchange with adjoining utilities already operating at 60 cycles, thus making possible more efficient and flexible use of generating facilities and at the same time providing access to a substantial market for the Commission's surplus energy. The purchaser of electrical equipment in general could benefit in a system operating solely at a 60-cycle frequency since 60-cycle items would be available to him at lower cost than comparable 25-cycle items. Under conditions as they were, certain newly developed equipment designed for 60-cycle operation was actually not manufactured for sale at 25 cycles. Furthermore, anyone moving from a 60-cycle area to a 25-cycle area or vice versa was subjected to much inconvenience and considerable expense in changing over frequency-sensitive equipment. These factors were frequently sufficient to deter potential power service customers from establishing operations in the 25-cycle island of southern Ontario. These customers were also influenced by the fact that induction motors, used almost exclusively for motive power in industry, are much more limited in their range of speeds at 25 cycles than at 60 cycles.

These considerations alone might well have been sufficient to prompt the decision to standardize the frequency in southwestern Ontario. The decision was taken in 1948, following detailed studies and reports by the Commission's engineering staff, supported by supplementary analyses of the problem made





FREQUENCY STANDARDIZATION

Left: Typical of some of the major items of industrial equipment which required standardizing is this large steel press.

Right: A technician alters a washing-machine for operation at 60 cycles.

by the Stone and Webster Engineering Corporation, Clarkson, Gordon & Company, and Mr. Harold Hobson, former chairman of the Central Electricity Board of Great Britain. These studies and reports set out in clear terms the advantages to be derived from standardizing the frequency at 60 cycles per second.

In addition, there was early and unmistakable evidence in growing loads that post-war demands would soon exceed the Commission's power resources and that a large capital expansion program would have to be undertaken. In preparation for this, the Commission had already formulated plans for three large power developments on the Ottawa River. An important issue in the planning had been whether the new resources should be developed for 25-cycle or 60-cycle operation. In 1948, about 78 per cent of the total primary power requirements of the Commission's customers in Ontario was supplied at a frequency of 25 cycles per second, and these requirements were expected to increase substantially in the next few years. This was a powerful argument for continuing to use both frequencies in the Province, in which event, part or all of the new Ottawa River resources would have to be developed at 25-cycle frequency. This possibility was considered, but it was eventually rejected on grounds that seemed to far outweigh the advantages that it offered. It was evident, for example, that the cost of power developed at a frequency of 25 cycles would exceed that of power developed at 60 cycles. Further expenditure would be necessary if these resources were subsequently to be changed over from 25 cycles to 60 cycles, supposing that the decision to standardize were merely postponed. Considerable saving, therefore, could be achieved if the Commission developed all its new resources at 60 cycles. The significance of the decision to do so may be gauged from the fact that the capacity of the Commission's resources in the Southern Ontario System and the Northeastern Division of the Northern Ontario Properties increased by 3,563,400 kilowatts, or 178 per cent, between 1948 and 1959.

The advantages to be obtained by the Commission in using a 60-cycle frequency would accrue in similar fashion to all of the Commission's customers in areas changed over from 25-cycle to 60-cycle supply. The important advantages of 60-cycle power to large industrial users have already been mentioned. The municipal electrical utilities would benefit from the use of lower-cost 60-cycle electrical equipment, from the sale of released equipment, and from the value created in extending the life of standardized equipment. The municipal retail domestic, commercial, and power service customers, like the Commission's retail customers in rural areas and local systems, would benefit from the economies achieved in power production and distribution, and from the convenience of purchasing in a market adequately and economically supplied with standard 60-cycle equipment.

In addition to the distinct advantages to be obtained from standardizing the frequency, the time was also propitious for undertaking the work. A large power expansion program was about to be started and the financial climate was favourable. In addition, a substantial reserve fund had been built up during the war years as a result of industrial expansion under favourable economic conditions created by a number of inflationary factors. This contributed to make 1948 a particularly good year in which to initiate plans. In that year,

therefore, with the approval of the Ontario Municipal Electric Association, the first steps were taken to institute a program of frequency standardization. The Legislature enacted the necessary legislation and the Commission proceeded to establish the required organization and to prepare the basic plans. The program as then conceived was expected to continue until 1964.

Policies and Procedures

Under the authority of The Power Commission Act the Commission outlined the fundamental principles and procedures that were to be followed. In this it sought the guidance of engineering specialists, advisory committees of the Ontario Municipal Electric Association and the Association of Municipal Electrical Utilities of Ontario, and benefited by the advice of representative consumer groups and others. Following the establishment of a Frequency Standardization Division the work of assembling material, organizing channels of supply, and collecting data began. The Canadian Comstock Company



FREQUENCY STANDARDIZATION — A customer is shown entering the Commission's mobile information centre during standardization operations. Inside, an efficient staff was ready to answer enquiries on all aspects of standardization.

Limited, which was in a position to supply administrative and technical staff with experience in operations of a similar kind, was retained to carry out the main bulk of the actual work of standardization of customer-owned equipment in all 25-cycle regions of the Southern Ontario System except the Niagara Region. There the work was to be carried out by a number of contractors working in close liaison with the Commission's regional staff. Where customers chose to do the work themselves or to

engage a contractor to work under their own supervision, the Commission was prepared to enter into agreements for the appropriate allocation of cost.

The entire standardization operation had three distinct phases, which required the most careful integration—the progressive changeover from 25-cycle supply to 60-cycle supply for the municipal electrical utility, the delivery of 60-cycle power in turn to the customer, and the coincident standardization of his 25-cycle electrical equipment.

Little change was required in the hydraulic turbines and associated equipment at 25-cycle generating stations standardized for operation at 60 cycles; the generators, however, and much of their auxiliary equipment required complete rebuilding. The main step-up and step-down transformation also was reconnected in some instances at very small expense, but a major reorganization of the 230-kv transmission circuits was required for the delivery of power from the Commission's generating facilities in eastern Ontario and the facilities of its Quebec suppliers, where standardization was also carried out. Synchronous condensers were rebuilt and additional capacity was provided, particularly in

the Toronto-Hamilton area. The construction of new facilities, however, was held to a minimum by the use of static capacitors or voltage regulators wherever this was feasible.

Resistance-type lighting installations required no change, and many of the very small fractional horsepower electric motors were universal or could be conveniently adjusted for 60-cycle operation. The Commission provided new 60-cycle electric clocks, fans, and similar small electric-motor appliances in exchange for 25-cycle models. Electrically controlled or operated heating equipment involved changing over motors and time-control equipment. The motors of the larger motor-driven equipment were replaced. Substantial economies were achieved in the standardization of 25-cycle refrigerators, one of the most expensive adjustments required for domestic service customers. By replacing the motor compressor only, instead of the entire refrigeration unit including the condenser and evaporator, it was possible to reduce the cost per unit by 45 per cent. About 2,000 of these refrigerators were standardized each month. Washing-machines were fitted with new or rewound 60-cycle motors. Where the mechanism of the washer was belt-driven the change was relatively simple; however, for gear-driven machines the cost of standardization was appreciably higher. Many of the 25-cycle motors recovered in these operations were rewound in the Commission's workshop for 60-cycle operation and subsequently used in other areas undergoing standardization. A meter shop established at the A. W. Manby Service Centre provided standardization, repair, adjustment, and inspection services in changing over meters both in the Commission's operation and on behalf of the municipal utilities.



FREQUENCY STANDARDIZATION — Equipment of all types was changed over to 60-cycle operation. These technicians are shown replacing 25-cycle motors at a neighbourhood gas station with motors operating at the higher frequency.

The ingenuity of the changeover crews was challenged on occasion by odd items operated by frequency-sensitive equipment—an electric motor operating a small door to let a cat in and out, a 67-year-old jukebox that manipulated steel records more than 2 feet in diameter, an electrically operated model cow, an electric bridge table that dealt and shuffled cards, a pump motor 80 feet below ground-level in a farmer's well. All were successfully altered to operate at 60 cycles. Standardization procedures for industrial power customers were generally more complicated than those for domestic service. A number of industrial motors were satisfactorily rewound for 60-cycle service; there were, however, problems where specific speeds were a prime consideration in the operation of the equipment. Where an industrial customer used a wide variety of motor drives, and this is usual in most modern factories, the cost of standardizing was relatively high.

A preliminary test standardization program was begun in East York Township in May 1949. The experience gained in this operation indicated where the prime organizational and administrative difficulties lay, and permitted refinements in procedures before the main work commenced. It was obvious that the areas chosen for standardization in the initial stages should be those conveniently accessible to sources of 60-cycle power. Consideration was also given to the fact that certain utilities were entering a period of what proved to be explosive load growth. Substantial economies would obviously be achieved if this new load could be picked up at the higher frequency. As the program developed, every effort was made through the provision of advance supply at 60 cycles to meet this problem of load growth.

In the following October the main program was under way in southwestern Ontario. In addition to the Commission's main contractor, more than 300 independent electrical dealers and contractors were engaged in carrying out the scheduled work of standardization. Customers who moved from 25-cycle areas to areas already served at a 60-cycle frequency required unscheduled standardization which was carried out by more than 1,000 contractors or dealers in electrical equipment. At the height of activity under this arrangement, as many as 2,000 customers in southwestern Ontario required work done in one month. The decision to extend standardization to the Northeastern Division of the Northern Ontario Properties was taken in 1956, and preparatory work was undertaken during 1957. Actual standardization operations began there in February 1958. When this part of the program ended 7 months later, more than 100,000 items of electrical equipment had been standardized for customers in this area.

Financing the Standardization Program

Different methods of financing the frequency standardization program were studied and analysed. At the beginning it was estimated that among the 784,300 customers in the Southern Ontario System program each domestic service customer would have, on the average, 2.7 frequency-sensitive appliances to be standardized or replaced. The entire standardization job was to be completed in 1964. In the years that followed, the work schedules were accelerated so that the entire program, including the Northeastern Division, was completed by July 1959. Meanwhile the program itself was continuously expanding, first because of the increase in population of the Province, and second because of

the increase in the number and variety of frequency-sensitive appliances in use. Towards the end of the program the average was not 2.7 but almost 6 per domestic customer, while the total number of customers for all services had increased to well over a million. Labour and materials became more costly as each year passed. The effect of this was offset to some extent by economies in standardization techniques, by the provision of advance frequency standardization, and through arrangements made by the Commission with manufacturers for the production of dual-frequency equipment. Nevertheless, the cumulative expenditure at the end of the program was unavoidably and substantially higher than had been originally estimated. The method of underwriting the cost of this huge undertaking was based on recommendations originally made by the Commission's financial consultants, Clarkson, Gordon & Company. Under the method proposed, the municipal utilities were to underwrite the costs of standardizing their own local distribution facilities while the Commission was to bear the cost of standardizing its facilities and those of its Quebec suppliers. The Commission also assumed the entire cost of standardizing the 25-cycle equipment of all domestic-type service customers and in large part the cost applicable to other classes of ultimate customers. It was considered equitable, however, that certain power service customers should help defray the cost of frequency standardization by an amount related to the benefit derived from the extension of the life of their standardized equipment, or the installation of new 60-cycle equipment. A tariff was established, and the amount of payment was based on the numbers and capacities of motors rewound or replaced. Since only customers whose levy under this arrangement would exceed \$250 were required to meet these charges, about 75 per cent of all industrial power service customers were unaffected. The industrial tariff recovery in total amounted only to approximately 5 per cent of the entire expenditure.

Allocating the Cost

As the program approached completion in 1959, the Ontario Municipal Electric Association at its annual meeting in March requested the Commission to engage Clarkson, Gordon & Co. to review the method being followed for apportioning the cost and "to determine whether the actual financing and apportionment of costs of conversion as carried out to date have placed an unjust burden on any municipality, and if this is found to be so, to recommend changes which will correct the situation." Clarkson, Gordon & Co. were appointed for this purpose on April 15, 1959 and the Company's report was submitted on February 1, 1960; its recommendations were communicated to the municipal commissions for their consideration, and at the annual meeting of the Ontario Municipal Electric Association on March 1, the recommendations were formally received and approved in principle.

The report reiterated that there was unquestioned merit in apportioning costs in accordance with benefits received. From the beginning, it had seemed inequitable to impose the total costs of standardization on the 25-cycle island known as the Niagara Division since other Divisions would obviously benefit to some extent from expected savings in the cost of generation and step-up transformation. Furthermore, it was inconceivable that costs could follow the individual customers on whose behalf expenditures for the standardization of

services had been incurred; these costs must therefore be borne not only by customers in the Niagara Division at the time of standardization but by future customers in the Division who would subsequently enjoy the benefits of 60-cycle power. On this basis, some part of the cost must be allocated to new loads as they might develop in the standardized areas. To do otherwise would be to favour customers in those municipalities which, in order to effect the greatest overall saving in cost, were selected for changeover early in the program; it would correspondingly penalize customers in other municipalities where 25-cycle loads would grow with every month that commencement of standardization was delayed. That is to say, the municipalities standardized earliest would assume a minimum cost for standardization and would enjoy in ever-increasing measure the benefits of 60-cycle power; those standardized late would find that costs varied directly and benefits inversely with the length of time that standardization had been delayed.

The original plan of financing the program in southern Ontario provided that the cost of changing over municipal distribution facilities would be borne by the municipal commissions directly, the cost applicable to rural and localsystem distribution facilities would be charged to current operating expense for these accounts, that the part of the cost which represented the extension of the life of fixed assets would be capitalized, and the remainder would be financed as the residual system cost of frequency standardization. This residual cost was to have been recovered from (1) funds taken from system reserves and set aside for the purpose, (2) interest earned on these funds, (3) special assessments which would have the effect of maintaining the cost of power at 1946 levels, (4) revenue from the sale of 60-cycle secondary export energy, and (5) direct charges to power service customers, leaving a balance to be funded and repaid after the completion of the 15-year program. This balance was expected to amount to approximately \$44,200,000. As it turned out, the cost of the Commission's program in the Southern Ontario System was more than double the amount at first contemplated, largely because of the expansion of the program to accommodate over 240,000 additional customers and to standardize, on behalf of domestic customers, more than twice the number of frequency-sensitive items originally estimated. The larger cost also reflects the increase in cost of labour and materials. This has required some adjustment in the method of obtaining the funds necessary for liquidating this increased cost. As early as the end of 1948 it was apparent that charges under item (3) in the foregoing list of financing methods would not produce the revenue expected, and frequency standardization charges somewhat larger than originally planned were levied in each of the years 1948 to 1950 inclusive. In each of the following years until the completion of the program, assessments for frequency standardization were made to municipal utilities in the Niagara Division but not to utilities in the other Divisions. The continuously expanding program tended to use up the funds set aside for standardization more quickly than had been expected, and had the effect of reducing the amount of interest return on these funds below the expected levels. Direct charges to power service customers produced slightly more, and sales of 60-cycle secondary export energy substantially more, than the revenue originally estimated to be derived from these sources.

Table of Expenditures by The Hydro-Electric Power Commission of Ontario on Frequency Standardization

	Prior to 1959	During 1959	Total at Dec. 31, 1959	Amounts amortized or to be amortized
Standardization of customers' equipment and system facilities (charged to frequency standardization account). Standardization of rural and local distribution facilities (charged to rural and local distribution facilities (charged to rural and local standardization).	331,581,640	\$ 14,507,371	\$ 346,089,011	\$ 146,735,284*
rural and local operations, main- tenance, and administrative expense)	1,705,598	205,539	1,500,059	1,500,059
Expenditures on inventory of equip-	333,287,238	14,301,832	347,589,070	148,235,343
ment, supplies, and other assets Amount to be written off in future years	1,889,479	1,889,479		400 252 505*
			• • • • • • • • • • • • • • • • • • • •	199,353,727*
Total expenditures	335,176,717	12,412,353	347,589,070	347,589,070
Northern Ontario Properties Standardization of customers' equipment	4,661,977	62,133	4,724,110	1,140,451
Amount to be written off in future years				3,583,659
Total expenditures	4,661,977	62,133	4,724,110	4,724,110

^{*}The amount already amortized has been reduced and the amount to be written off in future years has been increased by \$1,039,802 as an adjustment in the amounts charged in prior years.

The net result was that, of the total of \$352,313,180 chargeable to the Commission for frequency standardization, \$148,235,343 had been charged to the cost of power and reserves in the Southern Ontario System to December 31, 1959 and the balance remaining to be amortized in this system in future years amounted to \$199,353,727. The cost of standardization work in the Northeastern Division of the Northern Ontario Properties is included in the figure of total expenditure but was not included within the terms of reference of the Clarkson, Gordon & Company report. Frequency standardization in the Northeastern Division was not contemplated at the time their original estimates were made. Of this cost amounting to \$4,724,110, the amount of \$1,140,451 had been charged to the cost of power in the Northeastern Division up to December 31, 1959, leaving a balance of \$3,583,659 to be amortized in future years.

In a concluding summary the report suggests that with the foregoing exceptions the plan of financing has been carried through substantially as originally contemplated, and that no unjust burden has been placed on the municipal utilities of the Niagara Division. Among the recommendations made was the proposal that a total annual assessment should be continued against Niagara Division customers (exclusive of residual 25-cycle load), the amount not to exceed the total charged in 1959. This would result in a diminishing rate per kilowatt as loads grow, and the extension of the amortization period to the year originally contemplated for complete recovery of costs—about 1983. If, on the other hand, assessment at the rate of \$5.00 per kilowatt were to be continued



FREQUENCY STANDARDIZATION — Hundreds of meters arrived daily at the meter shop established at the A. W. Manby Service Centre in Toronto during standardization. Here, they were made ready for operation at 60 cycles, calibrated, and adjusted.

as in 1959, the period of amortization would be shortened by about eleven years, to end in 1972. The municipal commissions in the Niagara Division have been asked to express their preference for the longer or shorter amortization period.

Conclusion

A number of industrial customers in the Province are still served at 25 cycles because the costs of standardization were not warranted by the benefits accruing either to the customers or to the Commission. In southwestern Ontario most of these customers are located in the Niagara area where sufficient generating capacity has been left at 25 cycles for their supply. The installation of a frequency-changer at Sir Adam Beck-Niagara Generating Station No. 1 provides additional security for these 25-cycle customers, and flexibility of interchange between the 25-cycle and 60-cycle networks. In the northeastern section of the Province a number of mining company loads are supplied at 25 cycles principally from Abitibi Canyon Generating Station, and, whenever necessary, through frequency-changers.

The work of frequency standardization was officially completed on July 6, 1959. On that day in Metropolitan Toronto when the final 25-cycle domestic service was standardized, an interesting chapter of Ontario Hydro's development was closed. At one time during the program more than 3,600 men and 1,300 vehicles were engaged in the work. On the average over the entire 10-year period, six appliances were standardized every minute of the regular working day. This record achievement was made possible through the outstanding co-operation of all who were party to the work—customers, contractors, and power suppliers alike.

SECTION V

PLANNING, ENGINEERING, AND CONSTRUCTION

DURING the decade ended December 31, 1959 the Commission expanded its generating facilities by more than four million kilowatts, 86 per cent of the increase being hydro-electric. Of the hydro-electric total, 86 per cent was in southern Ontario, concentrated on three large rivers—the Niagara, St. Lawrence, and Ottawa Rivers. The remaining 14 per cent of the hydro-electric power developed was variously located on six rivers in the northern part of the Province.

Although there are now no further sites for major hydro-electric development in southern Ontario, there remain a possible two million kilowatts in northern Ontario in a number of sites generally remote from areas of concentrated load. Under any economic scheme of development they are inadequate, if taken by themselves, to match the present rate of load growth on the systems. They become, however, quite feasible for economic development if constructed in conjunction with base-load thermal-electric stations. Present plans provide for such an integrated program, and for the transmission of power from the more remote hydro-electric stations to larger load centres over lines operated at a voltage of 460 kilovolts or higher.

Summary of the Power Development Program—1950-1965 as at December 31, 1959

No. of units	In-service schedule	Capacity*
8 8 4 1 3 4 8 16 6 16	1950—1951 1950—1951 1951—1953 1959 1960 1951—1953 1952—1953 1954—1958 1957—1958 1958—1959 1961—1964	372,000 117,000 400,000† 200,000† 600,000† 264,000† 210,000 1,200,000† 20,000† 1,200,000†
1	1905	200,000†
2 1 2 4	1950 1959 1960—1961 1961—1963	47,000 45,000 38,000 172,000
4 5 3 3 1 1	1950—1954 1956—1958 1958 1958 1958 1958 1958	119,200 65,700 79,300 61,700 19,100 11,300 45,500 100,000†
	2 1 2 4 4 5 3	### Schedule Schedule

^{*}Capacities quoted are dependable at time of system peak except those marked †, which are installed capacities.

New thermal-electric developments in the early years of the decade provided only 14 per cent of the resources developed by the Commission in the 10-year period. During the decade ahead the relative proportions of hydro- and thermal-electric development will be reversed. The program outlined for the period 1960-1965 in the table on this page indicates that 90 per cent of the 2.3 million kilowatts at present scheduled for installation will be in thermal-electric stations. Of this amount, 220,000 kilowatts will be installed in stations making use of nuclear fuel.

Construction was carried out during 1959 at nine power developments, five hydro-electric and four thermal-electric. During the year, work was completed at Robert H. Saunders-St. Lawrence Generating Station, at Abitibi Canyon Generating Station on the Abitibi River, and at Silver Falls Generating Station on the Kaministikwia River. All three of these developments are now fully in service. Construction of the main works was undertaken at Otter Rapids on

Expenditures on	Capital	Construction	by F	iscal	Years	1950-1959
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	Genera- tion	Transfor- mation	Trans- mission	Rural	Other	Total
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
1950	86,637	28,025	30,346	19,521	6,951	171.48
1951	94,267	25,143	17,886	22,725	4.597	164.61
1952	96,682	22,954	15,628	23,033	4.534	162.83
1953	117,311	21,711	15,444	24,402	4,767	183,63
1954	76,649	15,360	16,091	20,133	4,585	132,81
1955	68,483	12,624	10,823	18,961	3,681	114.57
1956	128,245	13,464	11,424	17,244	2,626	173.00
1957	151,738	17,302	19,295	17.347	3,010	208,69
1958	126,204	20,688	20,806	19.556	3,402	190,65
1959	98,251	20,788	12,159	19,542	3,364	154,10
Total	1,044,467	198,059	169,902	202,464	41,517	1,656,40

^{* 14-}month fiscal period

the Abitibi River and at Red Rock Falls on the Mississagi River. The thermalelectric projects where construction is proceeding are: Richard L. Hearn, Lakeview, and Thunder Bay Generating Stations and the Nuclear Power Demonstration plant near Des Joachims Generating Station on the Ottawa River. A site between Kincardine and Port Elgin was selected for the CANDU nuclearelectric project, which becomes the fifth non-hydraulic power development in the present program. It will now be known as Douglas Point Nuclear Power Station.

The Commission is now engaged in the economic evaluation of a number of its smaller hydro-electric stations in service. Some of these require extensive rehabilitation after operation for fifty years or more, having been originally constructed as parts of small private or municipal utility systems and subsequently purchased by the Commission for incorporation into its larger system. The present evaluation will establish whether in the interests of efficient and economic operation the development of power at any particular site should be continued. Where continued development is justified, the evaluation will also indicate whether the present installation should be rehabilitated or the site should be completely redeveloped for greater output.

The adjustments to the transformation and transmission facilities carried out during 1959 are detailed following the reports on progress on power developments for each of the systems. Further adjustments are planned for the Commission's interconnections with the Niagara Mohawk Power Corporation at Sir Adam Beck-Niagara Generating Stations No. 1 and 2. The 60-cycle interconnection at 230 kv, at present supplying the 115-kv network at the Corporation's Packard Transformer Station, will be tied into its newly developed 230-kv system. Other improvements will benefit both systems by permitting the transfer of power in either direction for the supply of customers in the Niagara Falls area, where a number of industrial furnace loads are still supplied at 25-cycle frequency.

Office and Service Buildings

Construction was completed for a maintenance building at R. H. Martindale Transformer Station and for four area office buildings, five area service buildings, and three combined area office and service buildings. With the curtailment of the capital construction budget for 1960, work was deferred for the new regional office building for the Toronto Region and for combined office and service buildings in three rural operating areas.

The Commission's present research laboratories, which were built on Strachan Avenue in Toronto in 1913, will be razed to permit construction of the Frederick G. Gardiner Expressway. A new research centre is to be built at the A. W. Manby Service Centre where much more adequate space can be made available for the widely varied experimental and testing activities. The building will be electrically heated and air-conditioned.

In the future the Commission will make increasing use of electric energy in heating its buildings, and will provide the necessary power from its own facilities wherever this is conveniently possible. Four area offices and one regional office have been designed with electric resistance heating.

Survey Work

Approximately 600 line miles of aerial photographic survey were completed on scales varying from 400 to 2,000 feet to the inch. Topographic models covering approximately 187,000 acres were compiled on a stereo plotter. These models,

		oute or re miles	Circuit miles		
Voltage and Structure	At Dec. 31, 1958	At Dec. 31, 1959	At Dec. 31, 1958	At Dec. 31, 1959	
SOUTHERN ONTARIO SYSTEM 230,000-volt steel tower	2,827.15 1,558.59 939.85 19.35 11.17 3.31 4,725.01	2,939.27 1,511.57 952.29 20.60 11.17 3.31 4,778.85	3,551.28 2,407.86 944.46 43.15 12.30 3.31 5,228.66	3,780.81 2,364.80 956.90 45.65 12.30 3.31 5,277.36	
Total Southern Ontario System Northern Ontario Properties	10,084.43	10,217.06	12,191.02	12,441.13	
XORTHERN ONTARIO PROPERTIES 230,000-volt steel tower 230,000-volt steel tower 115,000-volt wood pole 69,000-volt wood pole 44,000-volt and less wood and steel	55.28 251.80 885.50 1,460.19 203.72 1,748.32	55.28 251.80 894.24 1,476.46 203.72 1,685.34	55.28 251.80 1,522.78 1,460.19 203.72 1,814.16	55.28 251.80 1,531.52 1,476.46 203.72 1,753.40	
Total Northern Ontario Properties	4,604.81	4,566.84	5,307.93	5,272.18	
Total—All systems	14,689.24	14,783.90	17,498.95	17,713.31	

which cover 19 locations in the Province, will be used for engineering studies of new projects and for the study of such operating problems as silt concentration occurring in the headpond at DeCew Falls Generating Station. Extensive survey was carried out both on and off shore at the Douglas Point Nuclear Power Station site. River investigation surveys were undertaken on the Mattagami, Mississagi, Abitibi, and White Rivers and, in particular, at the potential hydraulic sites at Thunderhouse Rapids, Little Long Rapids, Aubrey Falls, and Nine Mile Rapids.

The completion of 22 registered plans of subdivision for the St. Lawrence Power Project area brings to 44 the current total established. Approximately 18,500 of the 19,180 acres held by the Commission have now been dealt with. The revised plans have simplified the descriptions of land transfers and now provide a sound basis for future land management. A number of important boundary marks were precisely established and recorded both in the county registry offices and in the records of the Commission.

SOUTHERN ONTARIO SYSTEM

Progress on Power Developments

The Robert H. Saunders-St. Lawrence Generating Station, which was completed during 1959, was the subject of a special descriptive article in last year's Annual Report. A brief report on the work done there in 1959 follows, together with similar reports on the progress of work at three other generating station projects under construction in the Southern Ontario System.

ROBERT H. SAUNDERS-ST. LAWRENCE GENERATING STATION

Location — The International Rapids Section of the St. Lawrence River at Cornwall.

Installed Capacity —940,000 kilowatts in 16 units, 60 cycles (Ontario Hydro's share).

Rated Head —81 feet.

In Service —7 units in 1958; 9 units in 1959 on January 19 and 21, March 19 and 25, May 29, June 10, August 13 and 14, and December 18.

Estimated Cost —\$300,000,000, including generation, step-up transformation, and associated high-voltage switching at St. Lawrence Transformer Station.

With the initial operation of the sixteenth unit on December 18 the entire station was in service. Excavation was carried out beyond the limits of the navigation channel for the purpose of improving stream-flow, and further excavation will be undertaken in the river up stream from the powerhouse in order to establish the necessary depths and velocities to meet navigation requirements and to provide for the formation of ice cover in the winter months. This work is scheduled for completion in 1960. Dredging in the tailrace area immediately down stream from the powerhouse will begin in the spring of 1960 and will

continue throughout two navigation seasons till completion, which is scheduled for October 1961. Only minor items of rehabilitation work remain in the area affected, and these will be finished early in 1960.

RICHARD L. HEARN GENERATING STATION—TORONTO

Location — Eastern area of the Toronto waterfront.

Installed Capacity —1,200,000 kilowatts, 60 cycles (400,000 kilowatts in

4 units, and 800,000 kilowatts in 4 units).

In Service — Unit No. 1, 1951; Units No. 2 and 3, 1952; Unit No. 4,

1953; Unit No. 5 on May 27, 1959.

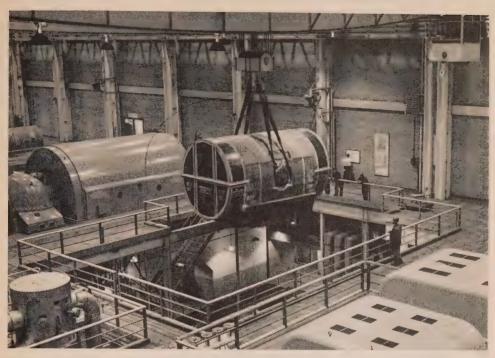
In-Service Schedule —3 units in 1960.

Estimated Cost —\$107,640,000, including generation, step-up transforma-(4 additional units tion, and high-voltage switching at the site. only)

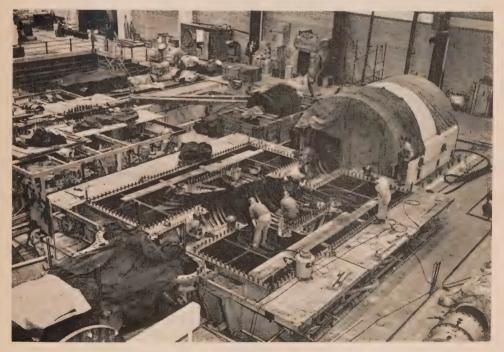
Each of the four additional turbo-generators being installed at this station will have a rating of 200,000 kilowatts, or twice that of any of the first four units. The first was placed in operation in May but during the test period was removed from service following damage to the boiler equipment. The generator unit, operated as a synchronous condenser during November and December, supplied reactive power as required for the Toronto area. The second 200,000-kilowatt unit is scheduled for service early in January 1960.



RICHARD L. HEARN GENERATING STATION — Feeder chutes and pipes supply coal to the pulverizers for number 5 turbo-generator unit. In powder form it will then be blown into the boiler where it is burned. On full load, a single 200,000-kilowatt unit will require 75 tons of coal per hour.



RICHARD L. HEARN GENERATING STATION — An electric crane moves a stator casing into position. Weight of the casing is more than 100 tons.



RICHARD L. HEARN GENERATING STATION — Skilled workmen assemble the bottom half of the duplex low-pressure cylinder for number 7 unit. The low-pressure, 1,800-rpm generator is located in the background under cover. Number 7 unit will be the third of the four additional 200,000-kilowatt generating units to be installed at this station. It is scheduled for service late in 1960.

LAKEVIEW GENERATING STATION—NEAR TORONTO

Location —On Lake Ontario just west of Toronto.

Installed Capacity —1,200,000 kilowatts in 4 units, 60 cycles.

In-Service Schedule -Unit No. 1 in 1961, Unit No. 2 in 1962, Unit No. 3 in

1963, and Unit No. 4 in 1964.

Estimated Cost -\$174,000,000, including generation, step-up transforma-

tion, and high-voltage switching at the site.

Detailed engineering design and production of plans for the first two units continued throughout the year. In some areas of work there will be little margin between the issue of field drawings and the commencement of construction, but the work in general is satisfactorily on schedule. Studies of alternative designs were undertaken with respect to dock construction and the height of the chimneys. The decision was that the dock will have a reinforced-concrete deck on a base of steel sheet-piling cells filled with concrete. The chimneys will be built 490



LAKEVIEW GENERATING STATION — Early in October, work forces began the erection of the structural steel framework for the station. By the end of 1959, more than 1,300 tons had been erected and concrete foundations for the first turbine block were being poured. Here steel workers, with the casualness born of competence, direct the placing of steel beams high above ground-level.

feet high to provide adequate dispersal of combustion products. Contracts have been awarded for almost all the equipment for the first two units, including circulatingwater pumps, feedwater and combustion-control equipment, high-duty valves and piping, and coal-handling equipment.

Following the decision in 1959 to extend the station by the installation of Units No. 3 and 4, specifications for the turbo-generators and boilers were issued. By the end of December the contract for the former had been let and tenders for the boilers were being evaluated.

A railway siding was constructed from the Canadian National Railways main line into the site. Construction roads were built on the site and the main access road was completed except for final surfacing. Earth and rock excavation was completed in the powerhouse area. By the end of December, structural steel to the extent of 1,300 tons had been erected in the boiler and auxiliary bay areas of Unit No. 1, and some concrete had been poured for the turbine block and general equipment foundations. Excavation for the discharge tunnel and channel was finished and 70 per cent of the tunnel was concreted. The intake channel was excavated as far as the pumphouse forebay. About 75 per cent of the 8-foot concrete cooling-water pipe had been laid between the pumphouse





LAKEVIEW GENERATING STATION

Left: The steel skeleton of the Commission's third major thermal-electric station in southern Ontario takes shape rapidly. At the lower left, part of the wooden formwork for the first concrete turbine block is being erected.

Right: A section of pipe is hoisted into the air by a crane and manoeuvred into position. It will form part of the water-service system supplying the new generating station and will be completed by mid-1961.

and the powerhouse. Rock fill and armour stone placing were completed for the breakwater and two stages of the causeway. Before severe winter weather set in during November, sufficient dredging had been done in the dock and intake channel area to permit dock construction to begin in the spring of 1960, unhampered by dredging operations. The remaining dredging should be completed early in 1960.

Nuclear Power Projects

The Nuclear Power Demonstration near Des Joachims Generating Station on the Ottawa River is being built jointly by the Commission, Atomic Energy of Canada Limited, and Canadian General Electric Company Limited. The output of the single 20,000-kilowatt unit will be supplied to the Commission's power system.

Work commenced in November for the installation of process equipment in the powerhouse, which was complete except for internal finishing. The pumphouse structure was finished. Engineering for the conventional features which are the Commission's responsibility was for the most part complete. The station is scheduled for service in 1961.

Under an agreement, also with Atomic Energy of Canada Limited, the Commission is participating in the full-scale, uranium-fuelled, heavy-water

moderated development now known as the Douglas Point Nuclear Power Station. The Commission is providing the services of up to 15 engineers together with

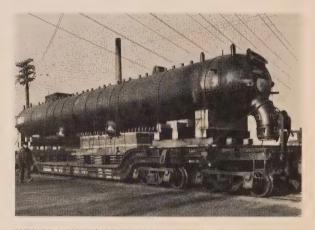


LAKEVIEW GENERATING STATION — Using chain hoists, workmen carefully ease a 12-ton concrete section of the 8-foot-diameter cooling-water duct into position. More than 700 million gallons of water daily will be used for cooling purposes at this station when the projected six units are in operation.

accommodation for their work for the duration of the project. Engineering, accounting. supply, research, and construction services are being made available to complement the Atomic Energy of Canada Limited organization. and part of the cost of professional services on design and construction is being assumed by the Commission. An operating and maintenance staff, trained at the Commission's expense, will be ready for the in-service date at Douglas Point late in 1964 or early in 1965.

As part of the same agreement the Commission undertook (a) to provide a project site, (b) to build a transmission line connecting the new station with the Southern Ontario System network, (c) to operate the station during the initial trial period, and (d) to purchase the station, when its operating characteristics have been proved suitable, at a price which will enable the energy output to be competitive in cost with that of a modern coal-fired station.

During 1959 the 2,300acre site which gives its name to the project was selected and purchased. Located on Lake Huron between Kincardine and Port Elgin. Douglas Point most effectively satisfied the principal criteria established—(1) proximity to a satisfactory supply of cooling water, (2) the physical characteristics required for adequate foundation, (3) location within 30 miles of a 230-kv system line, and (4) a population density acceptable to safety authorities.



RICHARD L. HEARN GENERATING STATION — The 165-ton steam drum shown en route from the factory will be installed for one of the additional generating units. The drum, measuring 7 feet in diameter, has a steel shell 6 inches thick.

Additional Equipment at Sir Adam Beck-Niagara Generating Stations

A 400,000-kva voltage-regulating transformer being installed on the tie-line with the Niagara Mohawk Power Corporation at Sir Adam Beck-Niagara

Generating Station No. 2 is scheduled for service in April 1960. The 45,000-kva, 25/60-cycle frequency-changer, in service at Chats Falls Generating Station since 1935, was moved to Sir Adam Beck-Niagara Generating Station No. 1, where it is to return to service in the spring of 1960.

Standardization of Generating Equipment at 60 Cycles

The last stages were completed for the standardization of Quebec sources of supply. The final units changed over included one generator at the Gatineau Power Company's Chelsea Generating Station, the last of four units standardized at Maclaren-Quebec Power Company's Masson Generating Station, and two of the four standardized in the Ottawa Valley Power Company's half of Chats Falls Generating Station.

Transformer Stations

In the Southern Ontario System an extensive program of work provided almost 1.5 million kva of additional transformer capacity in 1959. The net increase in capital investment required was approximately 11 per cent of the total spent on fixed assets. Six new transformer stations were placed in service while capacity was increased at 12 other major stations throughout the system. In particular, extensive work was carried out in the high-load areas of Metropolitan Toronto and Hamilton and in the southwestern and east central sections of the Province.

Stations in the Western, West Central, and Niagara Regions

Heavy demands for power in the southwestern section of the Southern Ontario System required extensive changes to the Commission's transformation facilities there, particularly in areas about London and Sarnia. A new station, Lambton Transformer Station, with a capacity of 430,000 kva was fully established at Sarnia by the end of the year. Municipal peak loads in the area had increased more than fivefold and industrial consumption had increased almost 350 per cent since 1948. Lambton Transformer Station assists in meeting these loads and has improved service security and voltage stability, conditions which are most important to the large oil refineries and chemical plants in the area. An additional transformer capacity amounting in total to 232,000 kva was installed in London, two 83,333-kva transformers at Highbury Transformer Station and two 33,333-kva transformers at Nelson Transformer Station, the latter transformers for service early in January 1960.

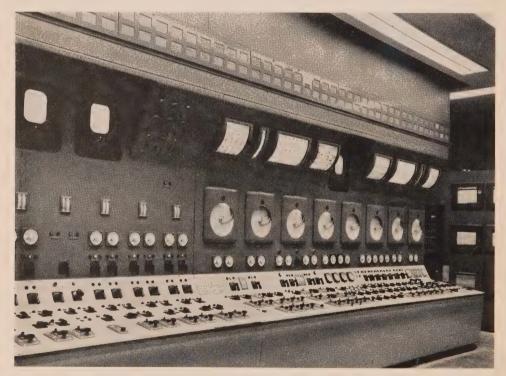
The frequency standardization of Burlington Transformer Station was completed, and as part of a program to increase the transformation capacity of this station, the last of the 230—115-kv, 25-cycle transformer banks was replaced by a 215,000-kva, 60-cycle autotransformer. This new transformer, together with two similar autotransformers previously installed, now provides sufficient capacity to meet estimated loads in the Hamilton area until 1965. A number of 230-kv and 115-kv circuit-breakers were installed also during the year to provide for the higher short-circuit duties and added switching requirements at 60 cycles.

Customers in areas supplied from Strathroy and Galt Transformer Stations were assured of greater service security following increases in capacity at these

stations of 15,000 kva and 83,333 kva respectively. Two 15,000-kva transformers were installed also at Detweiler Transformer Station to double the 115—26-kv step-down capacity of that station. To meet loads in the Niagara area, a new 33,333-kva transformer station was built on a site immediately north of Niagara Falls. Known as Stanley Transformer Station, it will be placed in service early in 1960 to substantially improve service security to customers in the surrounding area. A second new transformer station, Niagara Parks, will be established also in 1960 in the Niagara Falls area to provide a 115—69-kv, 25-cycle interconnection with the Niagara Mohawk Power Corporation across the Niagara River.

Stations in the Toronto Area

The most significant changes in transformer capacity were provided in the area of Metropolitan Toronto where approximately 1 million kva of capacity were placed in service in 1959. This capacity, however, was offset to a considerable extent by the removal of a number of 25-cycle and 60-cycle transformers. At Leaside Transformer Station, three 50,000-kva, 230—27.6/13.2-kv transformers, each with a forced-cooled capacity of 83,333 kva, were placed in service during the summer months to meet low-voltage loads in the city of Toronto and in the townships of North York and East York. All three transformers have two secondary windings with built-in underload tap-changing equipment which permits a municipal utility to have voltage control independent of that of other loads. Sound-reducing covers on the transformers ensured that the noise level



RICHARD L. HEARN GENERATING STATION — Closed-circuit television screens on the control panel for number 6 unit indicate combustion conditions in the boiler. At the top of the panel an annunciator shows trouble points that may develop. Controls for auxiliary equipment of each unit are located on the bench.

in adjacent residential areas was at a minimum. In conjunction with this work, facilities for the frequency standardization of the station were installed, and by the end of the year its standardization at 60 cycles was complete. The 215,000-kva, 230—115-kv autotransformer placed in service at Leaside Transformer Station early in January 1959 brought the total capacity of 60-cycle, 230—115-kv transformation there to 645,000 kva.

A third 215,000-kva autotransformer was installed at A. W. Manby Transformer Station as part of the frequency standardization and expansion program begun there three years ago. Eventually a fourth 215,000-kva autotransformer will replace the remaining 115,000-kva autotransformers. The synchronous condenser capacity was also increased during 1959 by the rebuilding of a second 40,000-kva, 25-cycle condenser to 48,000-kva, 60-cycle capacity. Five of the 230-kv oil circuit-breakers were removed for use elsewhere. The program of work at present under way at A. W. Manby Transformer Station will be further expanded in 1960-61 to provide for new load demands from customers in the western limits of Metropolitan Toronto and to provide connections for two 230-kv circuits from the Commission's new thermal-electric generating station at Lakeview. Six new 230-kv circuit-breakers with high interrupting capacity and two 83,333-kva, 230—27.6-kv transformers will be installed.

In the downtown area of Toronto, additional capacity was available with the installation of two more 33,333-kva transformers at Glengrove Transformer Station and with the placing in service of the new 115—44-kv Teraulay Transformer Station. Ultimately this latter station will have a firm capacity of 160,000 kva.

Stations in the Georgian Bay Region

The Commission is co-operating with Atomic Energy of Canada Limited in the development on the shore of Lake Huron of the 200,000-kilowatt Douglas Point Nuclear Power Station. The construction of this station in the Georgian Bay Region will require substantial changes to transformation facilities in the Owen Sound area. Present plans call for the installation of two 115,000-kva, 230—115-kv autotransformers at Hanover Transformer Station in 1961 as well as the construction of 230-kv transmission lines. In conjunction with this work a new 115—28.4-kv transformer station will be built at Elmira to provide adequate service to the area under normal conditions and also under emergency conditions with one circuit out of service.

Stations in the East Central and Eastern Regions

Early in 1959 the final stages in the establishment of St. Lawrence Transformer Station were completed. Four 230-kv single-circuit lines now connect the station with the Robert H. Saunders-St. Lawrence Generating Station.

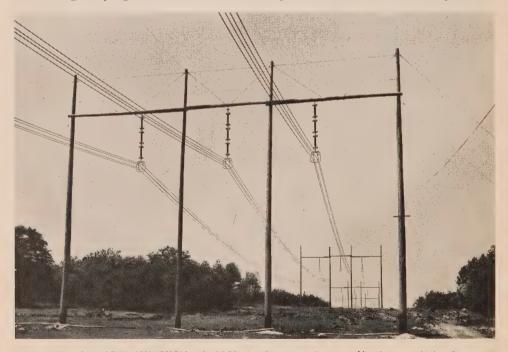
The Commission also installed new transformation facilities to provide additional power to industrial centres located along the north shore of Lake Ontario in the east central section of the Province. A 230,000-kva transformer station was placed in service at Cataraqui late in 1959 to supply bulk power to the Kingston-Belleville area. At Port Hope a new 83,000-kva, 115—44-kv transformer station was placed in service in November to improve service security

and to supply new loads in the Port Hope-Cobourg area. Westward at Oshawa an 83,000-kva transformer was installed at Thornton Transformer Station to increase the capacity of the station to 125,000 kva.

In the eastern section of the Province the construction of a new 83,000-kva transformer station at Morrisburg neared completion and early in 1960 it will be placed in service to provide service to customers in that area. At Ottawa a second 33,333-kva transformer was placed in service at Woodroffe Transformer Station, supplying power to the western section of the city. Ultimately four transformers will serve customers from this station. Albion Transformer Station, of equal capacity, was under construction in the northeastern section of Ottawa during the year, and in November the installation of the first transformer was completed. A second will be installed early in 1960. At Riverdale Transformer Station, providing service to customers in the south-central section of Ottawa, the installation of three 29,000-kva voltage-regulating transformers neared completion by the end of 1959.

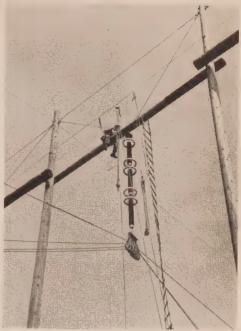
Transmission Lines

In the Southern Ontario System there was a net increase of 201 circuit miles of transmission facilities carrying power at voltages of 230 kv and 115 kv. This was a considerable decrease from the corresponding figure of 366 miles for 1958 when the establishment of a broad network of high-voltage transmission lines was in progress in eastern Ontario. In 1959, however, the Commission, while continuing its program of extension and improvement, entered a new phase in



EXTRA-HIGH-VOLTAGE TRANSMISSION — In 1959, the Commission built two ½-mile, extra-high-voltage test transmission lines near Coldwater, Ontario. They are operated at voltages of from 460 kv to 600 kv, and tests are being made for radio interference and corona. Three 4-bundle conductor phases are visible in the above illustration with the corona shields at the suspension positions.





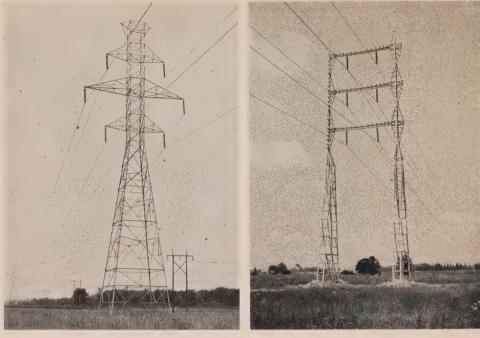
EXTRA-HIGH-VOLTAGE TRANSMISSION

Left: Two of the three 350-kv test transformers installed on the extra-high-voltage test transmission line built near Coldwater. The housing on top of the bushings contains metering instruments and will provide for disconnecting. Each transformer weighs 30 tons.

Right: Straddling a spar arm high in the air, a Commission lineman gets into position as the extra-high-voltage test line is strung on specially braced wood-pole structures. The three-section Langstab insulator shown here was manufactured in Europe. These insulators were used because of their electrically quiet characteristics.

the development of transmission facilities—the planning of an extra-high-voltage transmission network. Two half-mile sections of extra-high-voltage transmission lines were built from a test station near the village of Coldwater in the Georgian Bay Region and by midsummer, preliminary tests were under way there at voltages up to 600 kv, phase to phase. The line has since operated continuously, three phase, at voltages between 460 and 600 kv, enabling studies of radio interference and corona losses to be made. These studies, which will be completed in 1960, are the first step in the development of an extra-high-voltage transmission system which may eventually extend from Abitibi Canyon Generating Station in northeastern Ontario to Metropolitan Toronto, a total distance of more than 450 miles.

Major extensions and improvements to the present transmission network in southern Ontario, particularly in the southwestern section of the Province, were continued throughout 1959. New 230-kv lines were under construction there during the year to improve the link between western and central high-load areas. In February a second 230-kv circuit was placed in service between E. V. Buchanan Transformer Station and J. Clark Keith Generating Station. The second circuit was provided by stringing new conductor in a vacant position on a section of line already built. It now provides for future load growth in the Windsor area, and has also improved the Commission's interconnection with



From E. V. Buchanan Transformer Station, 230-kv transmission lines are carried westward on two types of Commission-designed double-circuit steel towers. The X1S tower on the left, weighing almost 9 tons, is 140 feet in height, with a maximum cross-arm width of 48 feet. The Q3S bridge-type tower on the right, weighing over 14 tons, is 122 feet in height, with a maximum width of 34 feet. The bridge-type tower, extended only 34 feet by the inclusion of a third upright shaft, can accommodate two additional circuits and is therefore particularly suitable for use in areas where the width of right of way must be restricted.

The Detroit Edison Company in the United States. A similar double-circuit line was also built westward from E. V. Buchanan Transformer Station a distance of 63 miles to Lambton Transformer Station in Sarnia where substantial increases in loads in past years necessitated greater supply facilities. A further 65 miles of 230-kv double-circuit transmission line were under construction during the year to link E. V. Buchanan Transformer Station with Neale Junction near the Hamilton area. With the completion of this work in 1960, greater service security to power customers in the southwestern section of the Province will be assured.

The Commission was also engaged during 1959 in a variety of work in the extension of transmission facilities in the central sections of the Province. As part of the 25-cycle interconnection with the Niagara Mohawk Power Corporation, a 69-kv line will be rebuilt next year for operation at 115 kv. This line, together with 69-kv river-crossing circuits, will be reconnected to a new 115—69-kv transformer station to be built at Sir Adam Beck-Niagara Generating Station No. 2. Near Hamilton, the construction of a four-circuit, 115-kv transmission line from Windermere Junction to Hamilton-Beach Transformer Station was completed towards the end of the year, and an old double-circuit line along the right of way was removed at the same time. In Toronto, the Commission finished the installation of two 115-kv underground cable circuits over a total distance of 13,700 feet to supply power to Teraulay Transformer Station. The underground transmission network in the city will be further extended in 1960 to incorporate the output of the final two 200,000-kva steam turbo-generators at Richard L. Hearn Generating Station. A review of the service security of the

115-kv transmission system in Toronto made during the year indicated the need for additional relay protection for the south loop circuits and the reconstruction of some of the 115-kv circuit-breakers at present at Richard L. Hearn Generating Station. Present plans call for this work to be completed next year. In the spring of 1959 the 230-kv, double-circuit transmission line from St. Lawrence Transformer Station westward to Richview Transformer Station was rerouted through Cherrywood Switching Station, and approximately 1½ miles of 230-kv, double-circuit, steel-tower transmission line were erected to complete the connection. All switching arrangements at Cherrywood Switching Station were completed during 1959, and the station was fully established as a main switching point for 230-kv transmission circuits carrying power westward from eastern generating resources.

In the east-central section two 230-kv circuits from St. Lawrence Transformer Station were rerouted through Hinchinbrooke Switching Station, newly placed in service in October, about 25 miles north of Kingston. Eight 230-kv oil circuit-breakers installed there during the year now provide terminal facilities for two transmission lines to the Toronto area, three lines from St. Lawrence Transformer Station, and one line to Cataraqui Transformer Station.

NORTHERN ONTARIO PROPERTIES

Progress on Power Developments

During 1959, construction for new generating stations was carried out at four hydro-electric sites and one thermal-electric project in northern Ontario. Brief progress reports are given for the stations where work is continuing. A somewhat more comprehensive description is given of Silver Falls Generating Station where a single 45,500-kilowatt unit was placed in service on September 1, 1959.



OTTER RAPIDS GENERATING STATION — An early snowfall presaged the winter cold to follow at this power site on the Abitibi River. Otter Rapids is only 85 miles from James Bay, and winter temperatures here were close to 40° below zero. Despite the intense cold, approximately 65,000 cubic yards of concrete had been placed at this project by the end of the year.

OTTER RAPIDS GENERATING STATION—ABITIBI RIVER

Location —60 miles northeast of Kapuskasing and 23 miles down stream from Abitibi Canyon Generating Station.

Dependable Peak

Capacity —172,000 kilowatts in four units, 60 cycles.

Rated Head —107 feet.

In-Service Schedule — Two units in 1961 and two units in 1963.

Estimated Cost —\$39,100,000, including generation, step-up transforma-

tion, and high-voltage switching at the site.

The station is being constructed at the downstream end of the lower of two



OTTER RAPIDS GENERATING STATION—Twin guy derricks rise 170 feet in the air over construction workers operating a track-mounted drill in the erection bay area of the generating station under construction.

series of rapids on a 2-mile stretch of the river known as Otter Canvon. The high canvon walls will permit the development of a 107-foot head with relatively little headpond flooding. The main dam will span the river at the downstream end of an island which divides the river for some 1.500 feet, and the arrangement is such that construction of the powerhouse and headworks on the west bank will be unaffected by water diversion problems. Excavation for the powerhouse substructure was largely finished by the end of the year.

As part of the first stage of construction, a concrete bulkhead structure adjoining the powerhouse is being built across the west channel of the river in the dry, the flow of the river being temporarily diverted into the east channel. Part of the concrete for

diversion ports in this structure has been placed. The second stage of construction will involve the diversion of flow through the diversion ports and the completion of the bulkhead structure to connect with the sluiceway structure on the east bank of the river. All piers and rollways for this sluiceway structure were finished. Earth-fill dams between the concrete structures and the shores of the river were nearly finished at the end of the year. The necessary minimum provision is being made at this time for the later addition of four more units.

The headpond area is partly cleared.

RED ROCK FALLS GENERATING STATION—MISSISSAGI RIVER

Location — Northeast of Thessalon and 15 miles down stream from George W. Rayner Generating Station.

Dependable Peak

Capacity —38,000 kilowatts in 2 units, 60 cycles.

Rated Head —93 feet.

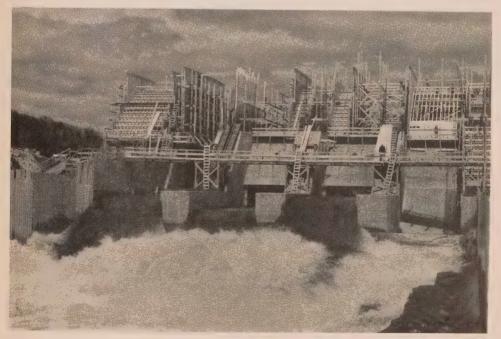
In-Service Schedule —1960-61.

Estimated Cost —\$19,100,000, including generation, step-up transformation, and high-voltage switching at the site.

The main dam includes a powerhouse headworks section adjoining the east bank of the river, and a sluiceway section at the west bank, separated from the powerhouse by a centre gravity section. The sluiceway section will have seven sluices, two of them motor-operated. The structure will be tied into the banks of the river by gravity sections at each end, and a log-chute will be incorporated in the east gravity section.

Construction on all sections of the main dam was begun in 1959. By the end of December, work on the powerhouse was sufficiently advanced to permit the erection of structural steel. Concreting of the sluiceways was completed except for the closure section, which will be concreted during the summer of 1960.

The larger part of the headpond area has been cleared and the remainder will be cleared in 1960.



RED ROCK FALLS GENERATING STATION — Waters of the Mississagi River pour through three of the seven sluiceways, by-passing the powerhouse area where construction is being carried out behind cofferdams. The first of two 26,500-brake-horsepower generating units is scheduled for service in late 1960.



RED ROCK FALLS GENERATING STATION — Construction is under way for a two-unit generating station at Red Rock Falls on the Mississagi River about 15 miles down stream from George W. Rayner Generating Station. The new station will consist of a concrete dam about 920 feet in length, which will incorporate a powerhouse and headworks adjoining the east bank of the river and a sluiceway section of 7 sluices on the west bank. By midsummer 1959, nearly 40 per cent of the total concrete required had been placed.



RED ROCK FALLS GENERATING STATION — By early August, excellent progress had been made on all phases of construction at Red Rock Falls. Concrete for five of the seven sluiceways had been placed, and the centre gravity section was about 50 per cent complete. Taken from the west bank, this picture shows the site in its third and final stage of construction.

ABITIBI CANYON GENERATING STATION (Capacity 226,000 kilowatts in 5 units)

The installation of a 45,000-kilowatt, 60-cycle unit was completed. It became the fifth unit in service at this station when it was placed in service in 1959. The new generator is in the position formerly occupied by a 25-cycle unit which had been removed to DeCew Falls Generating Station to meet urgent power requirements during World War II. It will be driven by the original hydraulic turbine now returned from DeCew Falls for operation under conditions for which it was specifically designed.

THUNDER BAY GENERATING STATION—FORT WILLIAM

Location — North shore of the Mission River in Fort William.

Installed Capacity —100,000 kilowatts in one unit, 60 cycles.

In-Service Schedule -1961.

Estimated Cost —\$26,000,000, including generation, step-up transformation, and high-voltage switching at the site.

Work on the site up to grade level was completed during 1959. This included pile-driving and placement of concrete for foundations, the construction of the water-discharge channel and of most of the intake for the circulating-water system, and, in addition, the dredging of the channel and the construction of the dock. Construction schedules were affected to some extent by the steel strike in the United States, but work was not seriously interrupted. Structural steel erection in the turbine area was completed; work is now proceeding in the bunker and boiler areas.

Most of the main items of mechanical equipment have been purchased. Orders were placed in 1959 for boiler-feed pumps, feed-water heaters, circulatingwater pumps, induced- and forced-draft fans, fly-ash collectors, and the coal-handling equipment.

While the structural steel for the main building was being erected, the turbine-house crane was installed and the deaerator was completed. The main circulating-water pipework was also installed. Installation of the steam generator is scheduled to commence in March 1960, and installation of the turbo-alternator in September.

SILVER FALLS GENERATING STATION—KAMINISTIKWIA RIVER

Location —30 miles northwest of Fort William.

Dependable Peak

Capacity —45,500 kilowatts in one unit, 60 cycles.

Rated Head —330 feet.

In Service — September 1, 1959.

Cost at December —\$16,300,000, including generation, step-up transformation, and high-voltage switching at the site.

The main storage reservoir and headpond for Silver Falls Generating Station is Dog Lake, situated to the north and west of Fort William in the Kaministikwia River watershed. This part of the watershed receives an average annual inflow of 1,000 cfs, which can be used at a rated head of 330 feet at Silver Falls Generating Station. The powerhouse, located on the north shore of Little Dog Lake, thus exploits the greater part of the 347-foot fall occurring in the 4-mile stretch of the Kaministikwia River between Dog Lake and Little Dog Lake to the south.



As early as 1907, the possibility of developing power in this section of the river was being discussed by the Commission as a means of providing for expected industrial expansion in the Lakehead area. Early investigations indicated the advisability of a plan of the type that was eventually to be followed, the construction of a hydraulic tunnel through the height of land between Dog Lake and Little Dog Lake. Repeated exploratory drilling over the past fifty years, however, had failed to establish the presence of competent rock through which the tunnel could be driven. The Silver Falls development was therefore passed over in favour of more promising projects.

With power demands continuing to grow, the Commission resumed investigation of the Silver Falls site in 1956, using a seismic exploratory method. A ridge of competent rock was located, and a satisfactory tunnel line was established. In March 1957, clearing of a construction camp area was begun. In October of the same year, tunnel excavation commenced. By August 1958, excavation of the tunnel was complete, and by February 1959, some 9,000 feet had been concreted.

By April, steel erection in the powerhouse area was nearly finished, and installation of the turbine was under way. During the summer months an

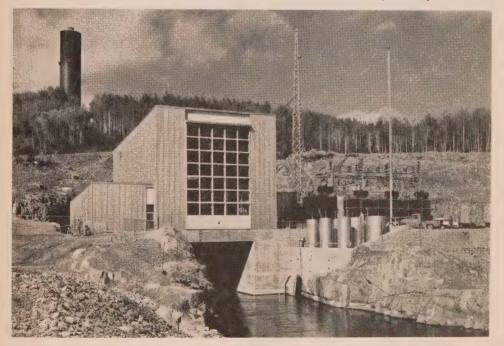
extensive rehabilitation program was carried out on a number of control dams which regulate the water-level in Dog Lake. The generating unit was mechanically and electrically tested in August, and the station was placed in service on September 1.

Headworks, Penstock, and Tunnel

An intake canal, extended by the excavation of a channel some 500 feet into Dog Lake, carries water to the conventional headworks approximately 400 feet from the shore of the lake. The headworks structure provides an intake 22 feet wide between two piers 6 feet in thickness and rising to deck level. Three sets of steel-lined checks in the piers accommodate conventional trash-racks, service gates, and a headgate. Protection from ice pressure during the winter is afforded by a curtain wall 6 feet thick extending down from deck level up stream from the service gate. The transition from rectangular to round cross-section in the water passage is completed approximately 32 feet down stream from the headgate.

A vertical shaft, lined with a minimum of 18 inches of concrete, and $14\frac{1}{2}$ feet in inside diameter, carries the flow to the tunnel proper. This is of similar construction, having its invert $302\frac{1}{2}$ feet below the level of the inlet floor. The tunnel is level for approximately 9,660 feet to the point where it joins the steel penstock. The penstock, varying in diameter from $14\frac{1}{2}$ to 9 feet, conveys the water 486 feet to the scroll-case inlet which is sufficiently below the level of the tunnel to permit complete drainage of the system.

The effect of high pressure created in the tunnel by sudden increases or decreases in flow with fluctuations in load will be reduced by the operation of



SILVER FALLS GENERATING STATION — On September 1, 1959 this 45,500-kilowatt generating station was placed in service. Located on the Kaministikwia River about 30 miles from Fort William, the single-unit station supplies power to customers in northwestern Ontario.



SILVER FALLS GENERATING STATION — Shown here in its final stage of construction, the surge tank is located directly over the hydraulic tunnel supplying water to the station, and is connected to it by a shaft 204 feet deep. Beyond the tank the single-unit generating station assumes its finished appearance as construction forces complete the excavation for the tailrace.

a standpipe surge tank located approximately 900 feet from the station. A sudden increase in flow, for example, will be drawn from the surge tank until flow in the tunnel attains the required velocity. The surge tank has three main parts—a steel riser $14\frac{1}{2}$ feet in diameter descending 90 feet through rock into the surge shaft, an extension of this riser $12\frac{1}{2}$ feet in diameter and rising 170 feet above ground, and a 175-foot shell 38 feet in diameter enclosing the upper riser. A conical steel roof covers the outer shell, and a monitor with screened louvers at the apex of the roof allows free passage of air during surges. Ports in the inner riser permit flow into and out of the outer shell. The interior of the tank shell is accessible for inspection through a manhole at grade level.

The straight-flow inlet valve, 9 feet in diameter, is connected to the scroll-case inlet by a "Dresser" type flexible coupling. This valve, the first of its kind installed by the Commission, is particularly suitable for suddenly shutting off flows of high velocity, the valve door cutting through the water like a knife. Since the valve is operated by a water-pressure servo-motor fed from the upstream side, it is not dependent on any outside source of pressure which might fail under emergency conditions.

Powerhouse Substructure

The substructure for the single vertical-shaft unit is of conventional design with steel scroll-case and elbow-type draft-tube. An intermediate pier dividing the draft-tube exit extends upward and partially supports the floor of the erection bay which is over the downstream extension of the draft-tube. A bridge crane provides hoisting service for the inlet valve, for the transformers, and for the

tailrace stoplogs, access to the valve and transformers being provided through hatchways in the generator-room floor.

Superstructure

The superstructure encloses the entire generator floor. The central section is higher than the two flanking sections to permit the overhead service crane to traverse the generator floor along the axis of stream-flow. This crane, powered by electricity, has a main hoist capacity of 175 tons and an auxiliary capacity of 25 tons.

Main Station Equipment

A Francis-type turbine rated at 60,000 bhp is directly connected to a

13.8-kv, 60-cycle generator operating at 240 rpm. The turbine was manufactured by Canadian Allis-Chalmers Limited. The generator was manufactured by Canadian Westinghouse Company Limited and is rated as a generator at 50,000 kva, 0.90 power factor, or as a synchronous condenser at 30,000 kvar at zero power factor.

A bank of three 13,000/17,333-kva, single-phase transformers, located adjacent to the powerhouse, steps the generator voltage up to transmission level. Power is incorporated into the system by a single-circuit steel-tower transmission line 8.8 miles in length linking Silver Falls Generating Station with the Moose Lake-Port Arthur line at a point about 20 miles from Port Arthur.

The station is remotely controlled from Port Arthur Transformer Station No. 1 by



SILVER FALLS GENERATING STATION — A surge tank towers 175 feet in the air behind the generating station. With a capacity of 1.2 million gallons of water, the tank acts to relieve the tremendous pressures which would be created in the 10,500-foot hydraulic tunnel as the result of sudden reductions in flow through the unit.

means of supervisory control signals transmitted by power-line carrier over the 115-kv line. Telemetering signals transmitted over these channels indicate hydraulic, mechanical, and electrical conditions. Other power-line carrier channels are used for line relaying, transformer protection, and voice-duplex communication, the latter being terminated in the local telephone systems at Silver Falls Generating Station and Port Arthur Transformer Station No. 1. A fixed radio station for mobile despatching and emergency use has also been installed.

Transformer Stations and Transmission Lines

The Commission spent approximately \$4 million on extensions and improvements to transformation and transmission facilities in northern Ontario during 1959. A number of major items of equipment were placed in service in both the Northeastern and the Northwestern Division, which improved system stability and provided greater security to customers.

Northeastern Division

According to present plans, the output of new generating stations on the Abitibi and Mattagami Rivers in the northeast is to be incorporated into the system by means of a central gathering transformer station and eventually transmitted to load centres in the south over a 460-kv transmission line. The line will be operated initially at 230 kilovolts. During 1959, approximately 100 miles of a route for this line were surveyed between Abitibi Canyon Generating Station and Timmins. In the course of the year also, a third 18,750-kva transformer was installed at North Bay Transformer Station, while 10,000 kvar of static capacitors and two 5,000-kva synchronous condensers were placed in service at Ouirke Lake Transformer Station. These latter installations will serve to minimize voltage fluctuations in the uranium mining area near Blind River. Voltage control to customers served from Kapuskasing Transformer Station was also improved with the installation there of a 30,000-kva, 13.8-kv, voltageregulating transformer. Two 115-ky oil circuit-breakers were installed at Monteith Transformer Station early in the year to complete the transmission arrangements for the 60-cycle generating unit placed in service at Abitibi Canyon Generating Station.

Northwestern Division

During 1959 the output of Silver Falls Generating Station was incorporated into the system by means of a 115-kv steel-tower line approximately 9 miles in length. The line, built to Conmee Junction on the 115-kv line from Port Arthur Transformer Station, was erected on a new type of steel tower developed by Commission engineers and proved to be competitive in cost with wood-pole structures. The tower design, while providing the advantages of steel in decreased maintenance costs, approaches the combination of loading obtained on wood poles. Its slender shape, long-span capability, and low-cost foundations make it well suited to the rough country of northern Ontario.

A new 17-mile, 115-kv transmission line was also placed in service during the year between Dryden Transformer Station and Sunstrum Junction. It has improved service security to customers in Hudson Townsite and Sioux Lookout who were previously served from Ear Falls Generating Station over 85 miles of 44-kv transmission line. Further improvements to both steady-state and transient stability on the 115-kv network linking Kenora Switching Station, Dryden, Fort Frances, and Moose Lake Transformer Stations were undertaken during 1959. The line betterments carried out involved the application of carrier relaying, high-speed reclosing, and the replacement of four 115-kv circuit-breakers with faster-operating units.

SECTION VI

RESEARCH AND TESTING ACTIVITIES

THE staff of the Research Division and the research and testing facilities of the Commission's laboratories are available to serve all branches of the organization in finding solutions to the needs and problems of power-system operation. Certain activities dealing with design, construction, operations, maintenance, and miscellaneous testing are discussed briefly here. Many of these items have been treated more extensively in the Commission's quarterly publication *Research News*.

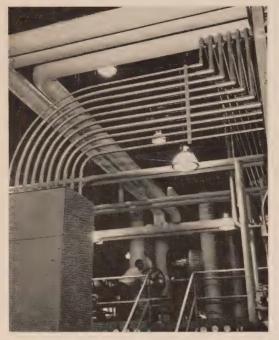
AIDS TO DESIGN WORK

Extra-high-voltage Transmission

Important advances were made in studies related to the design of extra-high-voltage transmission line. Of particular significance were the extension and improvement of formulae for predicting corona losses at any operating voltage when using various conductor configurations under a range of weather conditions. Present expectations are that data from the Commission's Coldwater test project will provide the required constants for the new formulae. Information on

weather conditions as normally reported is not as precise as other data used in these calculations. The greatest uncertainty in corona calculations will relate,

therefore, to weather predictions.



Part of a loop system designed to test the flow of coolant over fuel rods in simulated fuel channels at the A. W. Manby Service Centre. The equipment is being used by the Nuclear Power Plant Division of Atomic Energy of Canada Limited as part of the program to develop nuclear-electric generating stations in Canada.

Specialists in the high-voltage transmission field throughout the world have held differing views about applying to long operating lines radio-interference data from short test lines. This difficulty has been met by detailed study and analysis leading to a specific solution which is applicable to the Coldwater project. Now for the first time, radio-interference data provided by experiments on the short test line can be used with confidence to predict the extent of radio interference that will be created by a long operating line. Furthermore, currentleakage losses across the suspension insulators supporting the line conductors were differentiated from the corona losses. Measurement of actual insulator losses under bad weather conditions has not yet been achieved.

Air-break Switches as Possible Substitute for Costlier Equipment

Air-break switches are not specifically intended to function under load, and they have no rating for switching purposes. If they are used for switching operations, power arcs on occasion flash across to adjacent grounded parts, and cause circuit interruptions. A study was made of the limitations of switches and of the behaviour of the arcs when switches on either 115-kv or 230-kv systems are operated. Switching operations were recorded over a period of approximately two years, whenever circumstances permitted. The records were made with a moving-picture camera supplemented with an oscillograph. The films and oscillograms confirmed that arcs occurring during air-break switch operations are typically erratic. They also revealed the effects of uncontrolled variables, that of wind in particular being the most significant. The arc evidently has a certain maximum "reach" in the direction of the wind. The results of the study indicate that if suitable installation clearances were provided and operating precautions were observed, air-break switches could be used in many instances instead of more costly switching equipment.

Metals and Metallic Coatings Resistant to Atmospheric Corrosion

A long-term test program was begun in 1952 for the purpose of investigating the relative resistances to atmospheric corrosion offered by various metals and

metallic coatings. In that year, three sets of test specimens were placed on racks outdoors—one in an industrial area, one in a particularly humid location, and one in rural surroundings. As promising new materials become available.



A Commission technician checks instruments for measuring air pollution in Metropolitan Toronto. The instruments indicate the extent of fallout of dust and the degree of prevalence of sulphurous gases in the air.

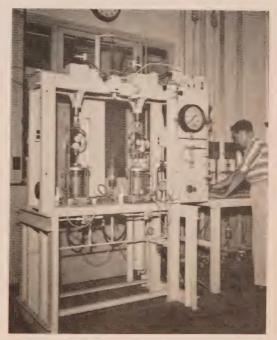
they are included in the test. in order that their acceptability for use can be evaluated. In general, aluminum and aluminumcoated steels are proving the most resistant to corrosion Galvanized coatings of different types are next in order of resistance, all showing resistances roughly in proportion to the zinc-coating thickness. Uncoated steels, including wrought iron. undergo comparatively rapid corrosion, though in low-alloy steels the rate of corrosion is somewhat retarded by the presence of chromium and copper. Anodized aluminum.

stainless steel, and a tin-nickel electroplate coating have been least affected by atmosphere in the industrial area, whereas cadmium coatings in the same

environment have corroded about as rapidly as uncoated steels. The observations are proving a valuable aid in design and are contributing to improvement in maintenance.

Shear Strength of Compacted Soil

In view of the extensive use of compacted earth materials in construction, it becomes highly desirable to have some means of accurately measuring their shear strengths. Because of their entrapped-air content these materials have presented much difficulty in shear testing. One approach to a solution of the problem involved an extensive series of tests which used a variety of techniques and methods to determine the shear strength of a remoulded saturated soil consolidated in the laboratory. The



Triaxial soil-testing equipment used to determine soil behaviour, particularly its compressive strength at various moisture contents, densities, and degrees of saturation

test results will serve as a basis for shear-strength studies of compacted soils both saturated and partially saturated.

Pole Strength

For design purposes, the ultimate fibre stress in wood poles of the species used by the Commission has been verified in recent years by bending tests carried to the point of pole failure. Comparison of the results with those from corresponding tests on small clear specimens removed from the poles indicated that specimen testing would be adequate by itself to predict pole strength. Consequently, in 1959, small clear specimens were used in sampling tests of poles prior to preservative treatment. The results confirmed that the stresses being used for design purposes satisfactorily reflect pole strength.

Construction Problems

Concreting Practices

As the result of the application of recent technological developments and the accumulation of test data applicable to current problems, concreting practices were changed. Allowance for normal variability was incorporated in the specification clause dealing with compressive-strength tests. In order to improve safety and increase economy in construction, concreting requirements under winter conditions were made more stringent for situations where early loading of structures or parts of structures is required, and were relaxed for certain less critical circumstances. A study was made of temperature conditions in masonry piers constructed under severe winter conditions; this, together with observations of the performance of mortar frozen at various early ages, is helping to clarify the precautions necessary in cold-weather construction.

For mass concrete, the Commission is making progressively greater use of fly ash to replace part of the cement, and greater use of lignin which, in addition to retarding the setting, is effective in further reducing the cement requirement. The use of these materials reduces temperature rise during curing, and hence decreases the cooling shrinkage of mass concrete. The success achieved with their use in the ice-sluice girders at Robert H. Saunders-St. Lawrence Generating Station prompted extension of their use for the construction of scroll-case roofs at Whitedog Falls and Caribou Falls Generating Stations. The slower-setting, low-shrinkage concrete made possible the placing of each scroll-case roof as a single unit instead of as four segments. The advantages included major savings in construction time, and the elimination of many vertical joints with their costly form bulkheads. This type is being used with significant economies for essentially all concrete at Otter Rapids, the fly ash being supplied, in part, from Richard L. Hearn Generating Station in Toronto.

Underwater Placing of Earth Fill

To investigate the wet method of earth-dam construction, observations were made of a number of cofferdams consisting of glacial till dumped into water up to 40 feet in depth. In the investigation the factors of safety of various sections of the cofferdams were determined and related to in-place properties and to piezometer readings where obtained. The results indicate that the wet method of earth-dam construction is comparable to construction in the dry in

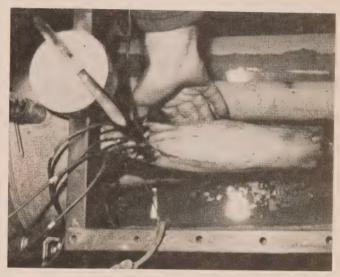
multiple lifts. Since the cost of the wet method is considerably lower, further study is to be made of the method and of the behaviour of completed cofferdams for which it was used, with a view to extending the method to the construction of permanent structures.

AIDS TO OPERATION

Niagara River Flow Variations Caused by Wind

Variations in the flow of the Niagara River, often as large as 40,000 cubic feet per second, occur when the wind causes a change in the level of Lake Erie. In scheduling water diversion for power generation, allowance must be made for these variations. At the present time, in order to avoid violations of the Niagara Diversion Treaty, considerably more water than the stipulated minimum

is allowed to flow over the falls. If this flow is to be kept as close as possible to the stipulated amount in order to provide maximum water diversion for power purposes, precise programming is required. As a preliminary step, a survey of flow variations in the river was made, using highly sensitive water-level gauges. The data, after analysis, will be used in the development of an electronic analogue computer designed to simulate, in advance,



Strain gauges covered by protective coating are used to study stresses in the lead sheath of an underground high-voltage cable circuit. Stresses are caused by temperature changes resulting from variations in the load carried.

the flow variations of the river. The information supplied by the simulator will enable more precise programming to be achieved.

Modification of Gas-actuated Relays

A modification applied to a large number of gas-detection relays in service is giving good performance. These relays are used on power transformers of the higher ratings as a protective measure against damage due to faults in the transformer. They are designed to actuate an alarm for small faults that result in a slow generation of gas, and to de-energize the transformer for larger faults that cause a rapid generation of gas. A "surge" element provided for the purpose of detecting the rapid gas-generating condition has tended to become inoperative in a relatively short time. This is brought about when the required cushion of air in the relay surge chamber is absorbed by the relatively air-free transformer oil. Based on a series of tests, the modification which has been developed overcomes this difficulty, and also makes readily possible quite accurate field checks of the performance of the surge element.

RESEARCH TO FACILITATE MAINTENANCE

Underground Cable Corrosion

Self-regulating rectifiers developed to provide cathodic protection for the lead sheaths of underground cables were applied at three places along the route of the 115-kv circuits between the Humber River and Toronto-Strachan Transformer Station. Polarization cells, developed earlier for use with pipe-type cables, supplement the action of the rectifiers. The stray currents in these areas vary rapidly. Prompt and accurate adjustment of the protective currents is therefore necessary, and effective grounding of the sheaths at the terminals is essential for safety. The self-regulating rectifiers and polarization cells respectively meet these requirements with a minimum of maintenance.

Photographic Examination of Cable-duct Interiors

Following the discovery of some obstruction in unoccupied 4-inch cable ducts of the duct banks carrying the 115-kv cables under the Frederick G. Gardiner Expressway in Toronto, it was necessary to develop a camera suitable



A camera designed to photograph the interior of 4-inch cable ducts is carefully inserted into a duct which is suspected of being damaged. By means of the camera, the exact location and extent of the damage can be determined without costly excavation.

for photographing duct interiors of these dimensions. A camera previously developed for examining 63/4inch bore-holes was too large. The new camera was contrived from a war-surplus aircraft motion-picture camera, the shutter being altered to allow the taking of from 500 to 600 still pictures with one loading. The photographs obtained showed that the duct banks had been sheared as a result of earth pressures and that immediate excavation was necessary to avoid damage to

cables in other ducts. As an aid in planning remedial action, the camera, restored to cinematographic operation, was used to expeditiously photograph the walls of about a thousand feet of duct.

Protective Coatings

Certain areas in the Nuclear Power Demonstration plant may be exposed to cumulative or to accidental radiation contamination. The coatings on concrete walls and ceilings in these areas must be resistant to degrading due to the effects of radiation, and must be able to withstand vigorous steam cleaning and caustic-solution decontamination procedures. Tests made elsewhere had indicated that vinyl coatings were superior to a number of other polymeric coating materials in resistance to radiation. On the strength of this information a vinyl coating system was developed, based on commercially available products suitable for application to concrete surfaces. A vinyl emulsion sealer applied to the concrete

is followed by a multi-coat vinyl lacquer finish. The combination provides outstanding appearance, impermeability both to radioactive dust and to water, and excellent resistance under decontamination procedures.

In order to assist in the preparation of specifications for protective coatings for various specialized applications in thermal-electric generating stations, studies were made of coatings for tanks, both steel and concrete, for holding demineralized water and condensate, of stack-lining coatings, and of factory-applied decorative coatings for aluminum siding. A number of more conventional high-temperature and anti-corrosion applications were also studied.

Appraisal of Aerial Ladders

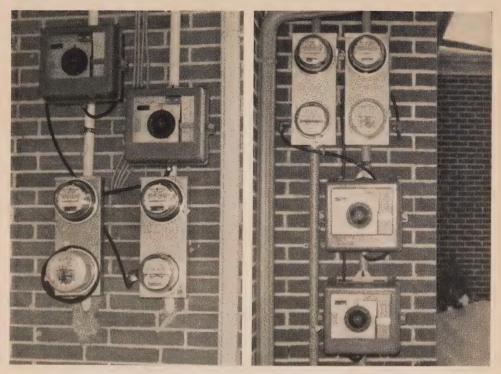
Prior to purchase, truck-mounted aerial ladders required for use in forestry work, line maintenance, and insulator washing are tested in performance and appraised in relation to Commission requirements. Although not considered live-line tools, they are also tested to determine the degree of electrical protection they provide for those working close to live circuits. Three main types are available, differing as to the means of elevating, extending, or rotating the ladder—manual, semi-hydraulic, and hydraulic. The ladders are statically loaded at various angles of elevation to check structural strength and stability. Hydraulic safety devices, rung locks, and various other locks and interlocks are appraised and checked. The necessary improvements in design, operating characteristics, or safety precautions which may be required by the Commission are on occasion incorporated for standard models.

Small-diameter Soniscope Transducers

The recent development of much simplified small bore-hole transducers has greatly extended the field of application of the soniscope in detecting deterioration or internal cracking in concrete structures. Until fairly recently the measurement by soniscope of ultrasonic-pulse velocities had been limited to those parts of dams under 60 feet in thickness and to smaller structures having opposite faces accessible to pairs of soniscope transducers. Even with the subsequent development of large bore-hole transducers which extended the scope of surveys of major dams, there remained the question of cost of drilling 6¾-inch-diameter holes to accommodate the transducers. The development of transducers capable of operating in holes of 2-inch diameter reduces the cost of drilling and greatly increases mobility through the use of portable low-cost drilling equipment.

Evaluation of Grinding Wheels

Grinding stones used in the repair of hydraulic turbine runners must be selected with a view to providing an acceptable surface finish in the minimum of time. The high cost of skilled labour for grinding and the possible revenue loss while the equipment is out of service are highly relevant considerations. A machine was designed to test the capability of different stones for removing welded overlay metal from runners. It simulates the three basic motions followed by operators in manual grinding, for practical ranges of pressures, speeds, and angles. Investigation indicated that grinding rates of some makes of stone were three times those of others. This and other related information obtained will contribute to increased efficiency in turbine runner repairs.



Arrangements of the meter panel on two of 50 houses included in a space-heating load survey

OTHER INVESTIGATIONS

Electric Water-heating

In a survey of water-heater loads of about 50 domestic customers, all located in the same general area, preliminary results indicate that group demands for fast-recovery water-heaters are satisfactory, being far less than had been expected. The Commission is also providing assistance with analysis of data obtained, and guidance on statistical sampling requirements to certain municipal utilities making detailed inventories of electric water-heaters supplied, or conducting sample surveys—of the energy consumption of domestic water-heaters, for example.

Recommendations of the most suitable water-heater tanks for various municipalities were made on the basis of analytical study of water samples, taking into account experience in the field. Some relatively unstudied water samples from the more northerly part of the Province showed unusual characteristics in this application. Electro-chemical tests of some twenty samples were made as a guide to suitable tank selection.

. Reserves of Large Power Transformers

An operations research team studied the Commission's reserve transformer requirements. Analytical methods were developed for determining, first the numbers and types of spare transformers required as a reserve against transformer failure in stations, and second the economic retention policy for transformers removed from service. A data-classification system using punched cards was established. Selected data on all large power transformers, including such information as location, physical characteristics, manufacturer, age, and failure record, can readily be obtained by use of the system.

Quality Control of Wood-pole Preservatives

In order to meet continuing requirements, the Commission annually purchases about 60,000 wood poles. These are preservative-treated with a solution of pentachlorophenol in petroleum oil at commercial treating plants

in Port Arthur, Sudbury, and Trenton, at each of which it has been necessary in the past to maintain a chemical technician to analyse the treating solutions used. In order to reduce the cost of these control analyses, which were performed by a time-consuming lime-ignition method, a reliable infra-red spectro-photometric method of analysis was developed. This method was used during the past year for the rapid analysis of samples sent daily by air or rail express from the treating plants to Toronto. Results were reported by telephone to the pole inspector at the plant within 24 hours of sampling. As a result, the cost of maintaining an analyst at each plant has been eliminated and, because of the rapidity of the method, the analysis cost per sample has been greatly reduced.



The crew compartment of one of the Commission's specially built line trucks. The interior has been sprayed with urethane foam so that in cold weather, heat is conserved and moisture is prevented from condensing on the walls, with consequently greater comfort for the occupants.

Fly-ash Utilization

That it is technically feasible to produce a lightweight aggregate from fly ash collected at Richard L. Hearn Generating Station was established by means of a large-scale plant-production trial. This is a significant development in view of the problem of disposing of fly ash produced at coal-burning thermal-electric generating stations. The aggregate was produced from fly ash prepared in the form of moistened pellets and sintered in a travelling-grate furnace. A study of economic factors, however, demonstrated that conditions are not yet suitable for practical commercial production.

Studies were continued on the use of mixtures of lime and fly ash for road construction. A field-scale test base course completed at the A. W. Manby Service Centre indicates favourable performance to date. Plans were made for a more extensive field trial of the mixture in road-shoulder stabilization.

SECTION VII

STAFF RELATIONS

THE Commission's high standard of dependable service is based primarily on the engineering and administrative skills of its highly qualified professional staff, and the loyalty and integrity of all employees throughout the organization. These qualities are best exemplified under critical conditions such as those experienced in the severe sleet storms during the closing days of 1959 and the early weeks of 1960. Many generous tributes were paid publicly and privately to Commission employees for their willingness, skill, and energy in restoring service as speedily as possible under extremely trying conditions.

Employment Statistics

The maximum number in the Commission's employ during 1959 was 17,076 in July, when there were 3,900 temporary employees engaged for the most part in construction, then at its peak for the year. These totals were considerably smaller than the respective totals of 18,731 and 4,759 for 1958. The average monthly payroll for 1959 was 15,866, including 13,210 regular and 2,656 temporary employees, which represents a 10.4 per cent reduction from the 1958 average.





OCCUPATIONS OF UNUSUAL INTEREST

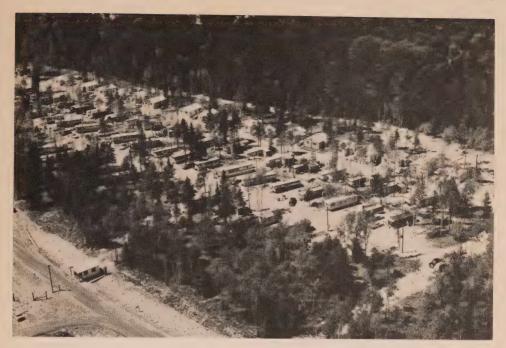
Left: A skin-diver emerges from the water after checking rock placement for the Lakeview Generating Station breakwater.

Right: Commission surveyors mount a tellurometer on its tripod in preparation for a survey in northeastern
Ontario. This electronic device, which cuts survey time and cost, emits microwaves which are received by
a remote unit and returned to the master unit.

Manpower Planning and Development

Recruitment of staff was comparatively limited during 1959 as the Commission dealt with the continuing problem of relocating personnel who had become surplus as the result of organizational change, the introduction of automatic operation, or the completion of large projects. The relocation of 260 employees in this way made outside recruitment for the most part unnecessary except for quite junior positions or for positions requiring specialized skills. During the year, thirty-one 1959 graduates were recruited from various universities for the Engineers Training Course, and twenty-seven former members of the course were transferred to regular positions elsewhere in the Commission.

Participation in employee training continued at a high level throughout the year. Members of the staff in senior management have availed themselves of the opportunity to broaden their experience at various management conferences and seminars. A series of seminars was arranged by the Commission for members of the engineering staff. Nearly a hundred employees participated outside normal working hours in these courses involving general business administration, economics as related to Commission activities, and problems associated with the operation of power systems. Other employees have responded with commendable interest to the Commission's offer of financial assistance in extramural study leading to improvement in academic and professional qualifications. In all, close to 600 persons in management and supervisory positions took part during the year in courses designed to assist them in improving the effectiveness of their work.



RED ROCK FALLS GENERATING STATION — A number of construction workers and their families are comfortably housed in attractive surroundings near the power site at Red Rock Falls. More than 400 employees of the Commission were at work here at the end of 1959.

Approximately 700 tradesmen took formal training in addition to the on-the-job instruction regularly offered. A large part of this training is given at the Conference and Development Centre in Niagara Falls. Indeed, almost 900 of the persons taking formal instruction, administrative and trades employees alike, received all or part of their training at the Centre.

Industrial Relations

The Commission's employees bargain collectively through three agencies—the Ontario Hydro Employees Union which is affiliated with the National Union of Public Service Employees (CLC), the International Union of Operating Engineers, and the Allied Construction Council (AFL-CIO-CLC).

Prolonged negotiations with the Employees Union for renewal of the contract expiring in 1958 concluded with the signing of a memorandum of understanding on February 26, 1959 following the submission of a Conciliation Report. The contract subsequently signed was for a two-year period expiring March 31, 1960. A new job evaluation plan, developed jointly by the Commission and the Union for clerical and technical employees, was introduced in September. Implementation should be complete by the spring of 1960. More clearly defined lay-off and recall procedures have been established in order to deal appropriately with staff surplus created in unusually large numbers by the closing of major projects.

Negotiations with the International Union of Operating Engineers were completed with the signing of two one-year agreements, the first with two locals

and effective until June 30, 1960, the second with one local and effective until July 31, 1960.

Bargaining with the Allied Construction Council was complicated by disputes arising between the Council and the Building Trades Councils in Toronto and at the Lakehead respecting their rights to represent construction workers at the Lakeview and Thunder Bay Projects. The former agreement expired July 31, 1958. The jurisdictional disputes were resolved by the recognition that the Allied Council had bargaining rights, and the settlements eventually reached with the various groups established a new wage formula based on wage rates generally in keeping with those of the areas in which the particular construction projects are located. Following the completion of Sir Adam Beck-Niagara Generating Station No. 2, the agreement with respect to this project, the first to be negotiated with the Council, was allowed to lapse. It had been in effect since March 4, 1951.

Industrial Relations Service for Municipal Electrical Utilities

At the request of the Ontario Municipal Electric Association, and in conjunction with the Employee Relations Committee of the Association of Municipal Electrical Utilities of Ontario, an industrial relations service is being provided for municipal utility management. Seminars in labour relations have been attended by managers representing 90 municipal systems. Meetings on labour management relations have been planned for utility superintendents and foremen. Any of the associated municipal utilities can obtain advice from the industrial relations service group on specific labour relations problems.

Accident Prevention

The Commission recognizes the need for unceasing effort in the campaign to improve the observance of safety regulations and thereby reduce the loss in time and human suffering attributable to accidents. It is gratifying to note that the ratio of frequency of accidents to man-hours worked showed considerable improvement in The average of 13 accidents causing lost time, of at least one shift, per million man-hours worked compares favourably with the average of 21 in the five-year



The Commission continually stresses all aspects of accident prevention and safety. This sign erected beside the access road at Otter Rapids Generating Station reminds everyone that a hard hat may save a life.

period 1954-58. The index of severity of injuries in 1959, measured by the American Standards Association method, was just over half the average index for the previous five years. The proportion of man-hours spent on the more hazardous type of construction may have been somewhat smaller in 1959 than

in any of the previous five years. Nevertheless, the improvement achieved is convincing evidence of the good effect of training in safe practices and improved work procedures. The Niagara Region staff established a notable record during the year in reducing lost-time accident frequency in the region to one per million man-hours worked. The Eastern Region staff completed over a million man-hours of work without an injury involving lost time. This outstanding achievement was appropriately recognized on May 26, 1959 when the Chairman of the Commission presented the National Safety Council's Award of Merit to O. S. Luney, the Regional Manager, who shared the honour with the Regional Safety Officer, G. R. Shannon.

The frequency rate of motor vehicle accidents declined by 7 per cent during 1959 and was 19 per cent below the 1955-58 average.

Four employees escaped serious injury through the use of protective equipment, two by the wearing of hard hats and two by the use of safety glasses. Members of the Commission's staff, by the application of artificial respiration, were able to save two persons from possible death. Mr. Firmino De Lazzer of the Construction Division was awarded the National Safety Council President's Medal for his part in the rescue of a young woman from drowning, and a Canadian Electrical Association resuscitation award was made to the Ear Falls Generating Station staff for resuscitating Mr. Karlis Vitols from electric shock.

Medical Services

The general health of the staff during 1959 compared quite favourably with the average of the population as a whole. Nearly 500 medical examinations in total were given during the year to a selected group of senior staff whose health has been kept under periodic review for the past several years. Administrative procedures for the sick-leave plan were simplified, in part to facilitate the change to electronic data processing.

The medical needs of construction projects were met through the services of a ten-bed hospital at Otter Rapids and by the operation of medical aid posts at Red Rock Falls and at the Thunder Bay and Lakeview thermal-electric projects. The medical aid post at Silver Falls Generating Station was closed in November. In Metropolitan Toronto, employees made over 12,500 visits to health service centres of the Commission, and the nursing staff made over 1,700 visits to homes or hospitals where members of the staff were confined by illness or injury.

First-aid instruction was given to approximately 4,000 employees during the year.

The Commission has established general regulations, including physical and age standards, for the protection of employees against ionizing radiation. These regulations will be kept under continuous review through the Medical Services Division.



APPENDIX I—OPERATIONS

THE tables in Appendix I are supplementary to the descriptive information on the year's operations given in Section I, and to information relating to the delivery of power and energy in wholesale quantities given in Section III.

The tables of power demands and resources give for each system and in total the primary peak requirements for the month of December, and the dependable capacity of the Commission's resources at the time these peak requirements occurred. A separate table on pages 112 and 113 gives the dependable capacity and the actual maximum output of each Commission-owned station and each source of purchased power. The dependable capacity of a station is the net output which it can be expected to supply at the time of the system primary peak requirements, assuming that all units are available and that the supply of water is normal. This capacity may be recalculated from time to time in accordance with changing conditions. The capacity of a source of purchased power is based on the terms of the purchase contract.

The Analysis of Energy Sales on pages 116 and 117 shows how the kilowatthours generated or purchased by the Commission and the associated municipal utilities were distributed to the various classes of ultimate customers or to interconnected systems.

Beginning on page 118 there is a table dealing primarily with the power and energy supplied in wholesale quantities to the municipal electrical utilities and local systems. It also records the date when power was first delivered by the Commission to each as a separate municipal system. The peak loads shown are those for December, the month when municipal maximum requirements usually occur, and not the average of the monthly peak loads used in the Allocation of the Cost of Primary Power Statement.

Statistics of peak loads and capacities are given, as elsewhere in the Report, in kilowatts rather than in horsepower. The kilowatt figures may be converted to horsepower by assuming that one horsepower is equivalent to 0.746 kilowatts.

THE COMMISSION'S POWER RESOURCES—1959

		Dependable capacity*	Maximum output*	Annual energy output (net)
Southern Ontario	System	kw	kw	kwh
River	Hydro-Electric Generating Stations			
Niagara Welland Canal Muskoka	‡Sir Adam Beck-Niagara No. 1. Sir Adam Beck-Niagara No. 2. Pumping-Generating Station †Ontario Power †Toronto Power DeCew Falls No. 1 DeCew Falls No. 2	441,000 1,336,000 168,000 135,000 108,000 26,000 130,000	430,000 1,284,000 132,000 138,000 97,000 33,300 135,000	3,257,332,900 8,009,378,300 111,449,900 1,030,454,000 561,337,900 150,668,300 762,497,400
WIUSKOKA	Ragged Rapids. Big Eddy. Bala No. 1 and 2.	7,500 7,100	7,800 7,550	42,629,920 41,737,435
South Muskoka Beaver Severn	Bala No. 1 and 2 South Falls. Trethewey Falls Hanna Chute Eugenia Big Chute.	350 4,200 1,600 1,200 5,400	4,400 1,700 1,400 5,180	29,241,540 11,239,200 9,255,200 20,450,600
Saugeen	Walkerton Hanover	4,300 350	4,410	28,427,600
Magnetawan Frent	Burks Falls. Heely Falls. Ranney Falls. Meyersburg. Sidney Hagues Reach Seymour Frankford. Sills Island	250 250 11,150 8,350 5,100 3,350 3,250 2,950 2,550 1,550	252 132 12,075 8,765 6,000 3,500 3,700 3,025 2,700 840	1,098,263 505,400 76,989,960 54,408,640 38,661,680 21,503,400 22,879,510 20,163,840 16,267,200 5,928,900
Otonabee	Auburn Lakefield	1,750 1,650	1,960 1,440	10,303,920 8,972,260
St. Lawrence Ottawa Madawaska	Robert H. Saunders-St. Lawrence	667,000 372,000 210,000 117,000 82,000	734,000 373,800 220,500 116,000 84,000	313,480 5,139,203,000 2,161,421,700 1,127,654,700 713,632,600 435,286,400
Mississippi Rideau	Stewartville Barrett Chute Calabogie High Falls Galetta Merrickville	63,000 42,000 4,400 2,450 800	66,000 42,000 4,440 2,800 820	245,855,800 214,801,200 25,486,800 13,706,400 4,327,480
	lectric	3,979,700	705	3,550,680
Location	Thermal-Electric Generating Stations			
Windsor Γoronto	J. Clark Keith (steam) Richard L. Hearn (steam)	244,000 372,000	187,000 387,000	92,345,200 244,333,500
	-electric	616,000	. ,	336,678,700
Total generated-	-Southern Ontario System	4,595,700	• • • • • • • • •	24,542,802,308
	Sources of Purchased Power			
Polymer Corporatic Niagara Mohawk P Canadian Niagara I Power Authority of Quebec Hydro-Elec Gatineau Power Co Maclaren-Ouebec P	npany n ower Corporation Power Company, Limited the State of New York tric Commission mpany ower Company er Company ively small suppliers)	15,000 187,000 239,000 93,000 82,000 2,000	78,000 800 132,000 24,000 	183,386,000 829,500 174,798,000 40,544,000 122,640,000' 2,467,949,000 1,467,784,500 648,727,000 437,113,600 437,133,600
(* 614)	suppliers)	2,000	1,200	6,322,109

^{† 25} cycle.

† 25 cycle.

† 25 and 60 cycle.

* The power capacity and output referred to in this table are 20-minute peaks for the month of December. Since the various maximum outputs do not coincide, their sum is not the peak load of the system.

** Includes 114,693,000 kwh wheeled to Niagara Mohawk Power Corporation for Power Authority of the State of New York.

THE COMMISSION'S POWER RESOURCES—1959

		Dependable capacity*	Maximum output*	Annual energy output (net)
Northern Ontario Prop	erties			
Northeastern Division		kw	kw	1I-
River H	lydro-Electric Generating Stations	AL 11	K.W	kwh
Abitibi ‡A Mississagi G Mattagami †W †L	bitibi Canyon ieorge W. Rayner. Vawaitin ower Sturgeon andy Falls pper Notch	226,000 47,000 10,800 6,000 2,700 8,400	220,300 47,600 10,400 5,900 2,150	1,223,182,400 254,928,650 58,520,700 43,200,182 18,126,264
Ir F	found Chute ndian Chute ountain Falls tinson	3,600 3,000 2,000	8,400 4,020 2,980 2,000	50,538,000 27,725,200 17,113,480 14,965,660
Matabitchuan M Sturgeon C South N	oniston IcVittie Iatabitchuan rystal Falls Libissing	5,700 4,100 2,200 8,800 8,200 1,600	5,280 4,150 2,220 9,680 8,200 1,610	24,857,580 26,903,400 15,191,120 65,572,440 45,599,700 10,522,200
.D	lliott Chute ingham Chute. agawong	1,400 900	1,400 910 680	6,336,770 4,950,980 3,539,510
	c	342,400		1,911,774,236
Location D	iesel-Electric Generating Stations			
Hornepayne H	agawong (diesel portion)hapleauornepayne.	300 500 1,000	336 573	1,960 835,200 3,022,400
Total diesel-electric	2	1,800		3,859,560
Total generated—Nort	theastern Division	344,200		1,915,633,796
Northwestern Division				
River H	ydro-Electric Generating Stations			
Ca Al	ine Portage ameron Falls lexander	119,200 76,700 60,900	119,000 75,500 62,500	678,510,160 462,484,000 350,516,000
M Ea	aribou Falls. lanitou Falls. ar Falls.	79,300 65,700 15,900	79,000 65,000 16,640	464,912,000 374,399,412 124,675,400
Winnipeg W Aguasabon Ag	lver Falls akabeka Falls /hitedog Falls guasabon at Rapids.	45,500 25,000 61,700 44,000	46,000 24,000 60,000 45,600	6,872,600 159,442,100 262,861,000 256,103,470 1,176,710
Total generated—Nort	hwestern Division	593,900		3,141,952,852
s	Sources of Purchased Power			
*One pec ul varo- Flectric C	ompany, Limitedommissionsmall suppliers)	1,200	18,000 36,100 1,178	14,408,240 158,013,228 8,703,546
Total purchased—Nort	heastern Division	1,200		181,125,014
NORTHWESTERN DIVISION Ontario-Minnesota Pulp & Manitoba Hydro-Electric	& Paper Company Board	1,700	1,496 8,400	8,300,320 125,506,285
	thwestern Division	1,700		133,806,605
	stems	5,533,800		29,600,388,956
	stems	620,900		
parenasea minsy		020,700		5,865,025,328

POWER RESOURCES

			December dependable	
_	Commission stations			
	Hydro-electric	Thermal-electric†	Total	
Sauther Out 1 S	kw	kw	kw	
Southern Ontario System	3,979,700	616,000	4,595,700	
Northern Ontario Properties	3,722,400	616,000	4,338,400	
Northeastern Division1959	342,400	1,800	344,200	
1958	297,400	1,800	299,200	
Total—Combined systems	4,322,100	617,800	4,939,900	
1958	4,019,800	617,800	4,637,600	
Net increase or decrease		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,007,000	
Southern Ontario System	257,300	0	257,300	
Northeastern Division	45,000		45,000	
Combined systems	302,300	0	302,300	
Northern Ontario Properties				
Northwestern Division	593,900	0	E03 000	
1958	528,600	ŏ	593,900	
Net increase or decrease	,	0	528,600	
Northwestern Division	65,300	0	65,300	
Total—All systems	4,916,000	617 800		
1958	4,548,400	617,800	5,533,800	
17001	1,010,400	617,800	5,166,200	

^{*} The capacities shown are those available for a 20-minute period at the times of system primary peak demand in each of the three operating systems in December, the capacity of sources of purchased power being based on the terms of the purchase contract. Requirements shown are the December coincident peaks for each system and their arithmetic sum.

ANNUAL ENERGY

Energy Made Available by the Commission

	1958		1	Increase or decrease	
Southern Ontario System Generated (net)	kwh		k	per cent	
hydro-electric thermal-electric	20,360,217,153 601,391,600		24,206,123,608 336,678,700		18.9 44.0
Total generated	20,961,608,753 5,624,542,003 1,099,669,000	22,633,438,156 2,853,043,600	24,542,802,308 5,550,093,709 1,518,561,000	25,226,264,417 3,348,070,600	17.1 1.3 38.1 11.4 17.4
Total	25,486,481,756	25,486,481,756	28,574,335,017	28,574,335,017	12.1
NORTHERN ONTARIO PROPERTIES NORTHEASTERN DIVISION Generated (net) hydro-electric diesel-electric	1,878,745,129 3,914,840		1,911,774,236 3,859,560		1.8
Total generated Purchased Transferred* in or out (net). Primary. Secondary.	1,882,659,969 151,226,659 1,099,669,000	3,034,644,968 98,910,660	1,915,633,796 181,125,014 1,518,561,000	3,559,611,260 55,708,550	1.8 19.8 38.1 17.3 43.7
Total	3,133,555,628	3,133,555,628	3,615,319,810	3,615,319,810	15.4
NORTHWESTERN DIVISION Generated (net) hydro-electric	2,799,098,978 31,243,484		3,141,952,852 133,806,605		12.2 328.3
Primary Secondary		2,713,801,843 116,540,619		2,760,792,799 514,966,658	1.7 341.9
Total	2,830,342,462	2,830,342,462	3,275,759,457	3,275,759,457	15.7
Generated (net) hydro-electric	25,038,061,260 605,306,440		29,259,850,696 340,538,260		16.9 43.7
Total generated	25,643,367,700 5,807,012,146		29,600,388,956 5,865,025,328		15.4 1.0
PrimarySecondary		28,381,884,967 3,068,494,879		31,546,668,476 3,918,745,808	11.2 27.7
Total	31,450,379,846	31,450,379,846	35,465,414,284	35,465,414,284	12.8

^{*} Net interchange between Southern Ontario System and Northeastern Division of the Northern Ontario Properties.

AND REQUIREMENTS

capacity*		i		
Sources of purchased power	Total dependable capacity*	Primary power requirements*	Reserve	Ratio of reserve to requirements
kw 618,000 592,000	kw 5,213,700 4,930,400	kw 4,578,541 4,252,715	kw	per cent
1,200 1,200 619,200 593,200	345,400 300,400 5,559,100 5,230,800	550,067 437,468 5,128,608 4,690,183	430,492 540,617	8.4 11.5
26,000 0 26,000	283,300 45,000 328,300	325,826 112,599 438,425	•••••	
1,700 1,700	595,600 530,300	427,866 448,821	167,734 81,479	39.2 18.2
0	65,300	20,955		
620,900 594,900	6,154,700 5,761,100	5,556,474 5,139,004	** **	**

^{**} There is no interconnection between the Northwestern Division and the other operating systems of the Commission. † Includes diesel-electric.

ACCOUNT

Energy Disposed of by the Commission in Wholesale Quantities

	1958	1959	Increase or decrease
Southern Ontario System	kwh	kwh	per cent
Primary—Municipal electrical utilities	13,976,502,536 4,268,080 409,054,841 2,185,504,319 4,145,112,482	15,980,829,118 4,616,784 411,698,482 2,310,451,148 4,118,441,003	14.3 8.2 0.6 5.7 0.6
Total primary Secondary—Interconnected systems, for resale —Direct industrial customers	20,720,442,258 2,701,329,000 32,052,900	22,826,036,535 3,168,785,000 4,942,800	10.2 17.3 84.6
Total primary and asset 1	2,733,381,900	3,173,727,800	16.1
Total primary and secondary	23,453,824,158 2,032,657,598	25,999,764,335 2,574,570,682	10.9 26.7
Total	25,486,481,756	28,574,335,017	12.1
NORTHERN ONTARIO PROPERTIES NORTHEASTERN DIVISION			
Primary—Municipal electrical utilities. —Local systems. —Interconnected systems, for resale. —Rural operating areas. —Direct industrial customers.	286,561,147 161,480,128 13,936,200 229,023,868 2,001,232,673	301,070,237 172,927,485 15,485,020 272,253,723 2,404,891,793	5.1 7.1 11.1 18.9 20.2
Total primarySecondary—Interconnected systems, for resale —Direct industrial customers	2,692,234,016	3,166,628,258 36,337 65,024,760	17.6
Total secondary	96,123,307	65,061,097	32.3
Total primary and secondary Losses and unaccounted for	2,788,357,323 345,198,305	3,231,689,355 383,630,455	15.9 11.1
Total	3,133,555,628	3,615,319,810	15.4
NORTHWESTERN DIVISION Primary—Municipal electrical utilities —Local systems. —Interconnected systems, for resale	443,819,260 16,369,460	473,203,775 18,082,895	6.6 10.5
—Rural operating areas —Direct industrial customers	68,167,879 1,971,552,080	72,200,621 2,016,322,235	5.9 2.3
Total primarySecondary—Interconnected systems, for resale —Direct industrial customers	2,499,908,679 36,208,938 70,077,354	2,579,809,526 189,147,313 290,671,340	3.2
Total secondary	106,286,292	479,818,653	
Total primary and secondary Losses and unaccounted for	2,606,194,971 224,147,491	3,059,628,179 216,131,278	17.4 3.6
Total	2,830,342,462	3,275,759,457	15.7
ALL SYSTEMS			
Primary Secondary	25,912,584,953 2,935,791,499	28,572,474,319 3,718,607,550	10.3 26.7
Losses and unaccounted for	2,602,003,394	3,174,332,415	22.0
Total	31,450,379,846	35,465,414,284	12.8

ANALYSIS OF by the Commission and Associated

		Sales by The
	Sales by utilities listed in Statement A	Through local systems
Classes of ultimate and an analysis	kwh	kwh
Classes of ultimate customers served: Domestic	6,428,108,270	112,861,021
Summer		
Total sales domestic-type service	6,428,108,270	112,861,021
Commercial	2,620,476,254	48,850,972
Power—primary—secondary	7,032,685,954	19,466,080
Farm		
Street lighting.	237,332,608	2,610,920
Total sales to ultimate customers served	16,318,603,086	183,788,993
Delivered to interconnected systems for resale:		
Primary Secondary		
Total sales to ultimate customers and for resale	16,318,603,086	183,788,993
Adjustments: Losses and unaccounted for—municipal utilities	838,725,546	***************************************
Generated by utilities listed in Statement A	211,384,483	
Purchased by utilities listed in Statement A from sources other than the Commission	190,841,019	
Commission sales, wholesale and retail	16,755,103,130	183,788,993
Adjustment for losses and unaccounted for—Commission		11,838,171
*Disposed of by the Commission in wholesale quantities	16,755,103,130	195,627,164

^{*} This line gives the sums of the corresponding items shown on the preceding page for each of the three operating systems. The total of 32,291,081,869 kilowatt-hours plus transmission losses and unaccounted for amounting to 3,174,322,415 kilowatt-hours equals the 35,465,414,284 kilowatt-hours shown as generated and purchased.

ENERGY SALES

Municipal Electrical Utilities during 1959

	To direct		
In rural areas	industrial customers	To interconnected systems for resale	Total
kwh	kwh	kwh	kwh
			6,540,969,291
988,315,209 60,345,721			988,315,209
00,343,721	***************************************	*********	60,345,721
1,048,660,930			7,589,630,221
282,562,584			2,951,889,810
287,458,107	8,539,655,031		15,879,265,172
******	360,638,900	• • • • • • • • • • • • • • • • • • • •	360,638,900
804,044,121			804,044,121
11,340,848			251,284,376
2,434,066,590	8,900,293,931		27,836,752,600
		427,183,502	427,183,502
		3,357,968,650	3,357,968,650
2,434,066,590	8,900,293,931	3,785,152,152	31,621,904,752
			838,725,546
•••••			211,384,483
			190,841,019
2,434,066,590	8,900,293,931	3,785,152,152	32,058,404,796
220,838,902		•••••	232,677,073

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES

Municipality	Date of first delivery	Fre- quency December 1959	Peak load December 1959	Energy supplied during 1959	Increase or decrease in energy consumption 1959 over 1958
Southern Ontario System		cycles	kw	'000 kwh	per cent
Acton Ailsa Craig Ajax Alexandria Alfred	Jan. 1913	60	3,727.2	16,784	11.2
	Jan. 1916	60	330.6	1,195	22.7
	Jan. 1952	60	5,354.0	26,123	5.7
	Jan. 1921	60	1,786.0	7,275	14.6
	June 1952	60	417.0	1,421	34.2
Alliston Almonte Alvinston Amherstburg Ancaster Twp.	June 1918	60	1,877.0	8,779	10.7
	Feb. 1945	60	1,502.7	5,294	7.2
	Apr. 1922	60	267.7	886	7.0
	Feb. 1919	60	3,108.4	16,354	4.7
	Jan. 1914	60	2,436.4	9,532	8.1
Apple Hill	Apr. 1921	60	102.3	390	11.3
Arkona	Dec. 1926	60	332.6	1,248	14.1
Arnprior	June 1929	60	4,152.0	18,179	8.4
Arthur	Dec. 1916	60	763.3	2,881	9.0
Athens	Jan. 1929	60	443.7	1,706	12.8
Aurora Avonmore Aylmer Ayr Baden	Dec. 1920 Oct. 1959 Mar. 1918 Jan. 1915 May 1912	60 60 60 60 60	4,841.6 168.9 4,466.9 767.6 855.1	21,879 162 18,691 2,650 3,172	32.5 11.1 10.7 11.9
†Bala	Apr. 1929	60	291.8	1,829	2.8
Bancroft	Mar. 1950	60	1,267.2	4,927	1.5
Barrie	Apr. 1913	60	16,601.2	79,008	9.3
Barry's Bay	Jan. 1950	60	399.8	1,416	20.4
Bath.	Nov. 1931	60	347.8	1,252	9.7
Beachville Beamsville Beaverton Beeton Belle River	Aug. 1912 Jan. 1930 Nov. 1914 Aug. 1918 Dec. 1922	60 60 60 60 60	2,401.2 1,597.2 1,009.9 487.2 653.6	15,875 6,577 4,619 1,818 2,788	8.1 10.7 10.3 5.1
Belleville	Mar. 1916	60	23,125.7	107,673	32.3
Blenheim	Nov. 1915	60	1,481.7	6,042	10.4
Bloomfield	Apr. 1919	60	434.4	1,626	1.9
Blyth	July 1924	60	688.0	2,597	6.1
Bobcaygeon	July 1946	60	689.6	3,014	10.0
Bolton Bothwell Bowmanville Bracebridge Bradford	Feb. 1915	60	1,206.0	4,477	22.5
	Sep. 1915	60	419.1	1,350	7.1
	Mar. 1916	60	6,229.3	27,265	9.0
	June 1955	60		14	52.7
	Oct. 1918	60	1,693.8	7,954	17.2
Braeside Brampton Brantford Brantford Twp. Brechin	June 1929	60	1,449.1	3,176	156.4
	Nov. 1911	60	11,940.0	47,591	14.4
	Feb. 1914	60	43,963.2	213,438	8.3
	Oct. 1915	60	4,867.2	23,350	14.6
	Jan. 1915	60	133.2	491	3.8

†Local system

TO MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

Municipality	Date of first delivery	Frequency December 1959	Peak load December 1959	Energy supplied during 1959	Increase or decrease in energy consumption 1959 over 1958
Southern Ontario System—Continued		cycles	kw	'000 kwh	per cent
Bridgeport Brigden Brighton Brockville Brussels	Mar. 1928 Jan. 1918 Mar. 1916 Apr. 1915 July 1924	60 60 60 60	882.4 252.8 1,399.8 16,135.0 658.4	3,270 872 5,946 72,859 2,543	12.5 4.9 6.4 6.3 11.9
Burford	June 1915 Nov. 1916 Jan. 1950 Jan. 1930 Oct. 1912	60 60 60 60 60	829.8 184.0 449.1 32,334.2 1,106.6	3,024 615 1,838 130,408 4,387	8.3 8.0 11.9 *
Campbellford Campbellville Cannington Cardinal Carleton Place	July 1959 Jan. 1925 Nov. 1914 July 1930 May 1919	60 60 60 60 60	824.5 175.0 691.2 973.6 3,024.2	159 652 2,596 4,158 14,908	12.3 10.0 2.2 6.3
Casselman. Cayuga Chalk River Chatham Chatsworth	Dec. 1952 Nov. 1924 Jan. 1957 Feb. 1915 Dec. 1915	60 60 60 60 60	603.4 462.9 462.5 19,286.1 287.2	2,248 1,659 1,981 89,750 1,041	6.8 8.9 11.8 22.7 5.5
Chesley	July 1916 Apr. 1914 Sep. 1919 May 1924 Mar. 1914	60 60 60 60 60	1,173.7 1,262.8 1,305.8 369.9 2,179.1	4,502 5,379 5,189 1,555 9,673	3.4 7.6 14.6 5.3 4.8
Cobden	Dec. 1934 Mar. 1916 Mar. 1916 Mar. 1913 Mar. 1913	60 60 60 60 60	605.8 9,038.1 917.3 575.4 6,142.3	2,324 40,983 3,661 2,243 26,873	8.3 8.9 4.3 15.2 4.5
Comber Cookstown Cottam Courtright Creemore	May 1915 May 1918 Feb. 1919 Dec. 1923 Nov. 1914	60 60 60 60	307.2 329.4 266.7 184.0 496.8	1,026 1,304 945 671 1,966	6.0 9.6 8.5 3.4 4.0
Dashwood Deep River Delaware Delhi Deseronto	Sep. 1917 Aug. 1958 Mar. 1915 May 1938 Mar. 1916	60 60 60 60 60	252.9 3,485.4 250.4 2,694.1 906.2	934 14,968 903 10,191 4,454	9.5 5.9 6.3 4.3
Dorchester	Dec. 1914 Mar. 1918 Apr. 1915 Dec. 1914 Oct. 1917	60 60 60 60 60	407.0 424.0 1,254.0 281.2 234.2	1,501 1,286 5,506 872 812	8.1 9.2 15.1 10.0 5.5

^{*} A large rural subdivision was annexed by the municipality in November 1958.

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES

Municipality	Date of first delivery	Frequency December 1959	Peak load December 1959	Energy supplied during 1959	Increase or decrease in energy consumption 1959 over 1958
Southern Ontario System—Continued		cycles	kw	'000 kwh	per cent
Dundalk Dundas Dunnville Durham Dutton	Dec. 1915	60	575.9	2,080	12.2
	Jan. 1911	60	7,596.5	31,288	8.2
	June 1918	60	3,521.8	15,623	2.2
	Dec. 1915	60	1,457.5	6,019	5.6
	Sep. 1915	60	415.2	1,584	4.5
East York Twp	Dec. 1923	60	38,224.0	180,963	3.1
Eganville	Apr. 1952	60	578.8	2,202	16.6
Elmira	Nov. 1913	60	3,635.8	14,909	7.5
Elmvale	June 1913	60	622.0	2,470	7.4
Elmwood	Apr. 1918	60	217.0	569	9.0
Elora	Nov. 1914	60	789.2	3,301	9.2
Embro	Jan. 1915	60	383.7	1,510	7.7
Erieau	July 1924	60	331.5	1,518	2.0
Erie Beach	July 1925	60	59.1	184	7.4
Erin	Jan. 1945	60	615.5	2,315	12.9
Essex Etobicoke Twp. Exeter Fergus Finch	Feb. 1919	60	1,617.1	6,800	1.8
	Aug. 1917	60	112,719.8	548,410	9.9
	June 1916	60	2,187.2	8,963	10.8
	Nov. 1914	60	3,510.3	13,913	8.8
	Feb. 1928	60	293.7	1,002	12.0
Flesherton	Dec. 1915	60	416.4	1,338	15.3
Fonthill	June 1926	60	1,329.6	4,987	1.8
Forest	Mar. 1917	60	1,290.8	6,674	7.3
Forest Hill	Jan. 1938	60	13,801.0	67,377	3.6
Frankford	Oct. 1937	60	765.3	2,759	10.7
Galt	May 1911	60	23,305.5	105,159	17.6
	Sep. 1913	60	7,754.3	33,925	12.9
	Aug. 1920	60	599.7	2,421	13.2
	Feb. 1914	60	5,371.6	23,837	15.7
	July 1954	60	564.7	3,003	12.4
Grand Valley	Dec. 1916	60	456.2	1,685	9.2
	July 1916	60	134.5	442	13.1
	Nov. 1915	60	2,492.2	12,190	3.3
	Jan. 1930	60	2,992.5	12,968	5.9
	Dec. 1910	60	35,645.5	162,662	20.5
Hagersville	Sep. 1913	60	1,726.7	6,900	4.1
Hamilton	Feb. 1911	25 & 60	324,641.3	1,849,882	21.6
Hanover	Sep. 1916	60	3,815.6	14,913	7.9
Harriston	July 1916	60	1,354.2	5,789	8.0
Harrow	Feb. 1919	60	1,375.4	5,701	7.5
Hastings Havelock Hawkesbury Hensall †Hepworth	June 1931	60	460.8	1,886	11.8
	Feb. 1921	60	577.2	2,360	23.9
	June 1952	60	3,025.3	13,792	12.7
	Jan. 1917	60	781.5	3,468	10.5
	Apr. 1930	60	131.6	490	8.6

[†] Local system

TO MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

Municipality	Date of first delivery	Frequency December 1959	Peak load December 1959	Energy supplied during 1959	Increase or decrease in energy consumption 1959 over 1958
SOUTHERN ONTARIO SYSTEM—Continued		cycles	kw	'000 kwh	per cent
Hespeler Highgate Holstein Huntsville Ingersoll	Feb. 1911	60	5,071.2	23,356	11.7
	Dec. 1916	60	222.0	625	9.0
	May 1916	60	118.8	400	4.8
	Sep. 1916	60	2,577.1	13,425	4.0
	May 1911	60	5,582.1	25,100	13.2
Iroquois.	Feb. 1940	60	844.8	3,340	1.8
Jarvis.	Feb. 1924	60	394.2	1,478	3.4
Kemptville	Dec. 1921	60	1,512.9	6,592	7.7
Kincardine	Mar. 1921	60	2,112.9	9,803	6.8
Kingston.	Dec. 1917	60	40,130.7	200,692	6.3
Kingsville	Feb. 1919	60	2,178.9	8,165	4.5
Kirkfield	June 1920	60	83.6	322	9.2
Kitchener	Jan. 1911	60	64,996.0	324,222	10.9
Lakefield	Aug. 1920	60	1,310.4	5,194	4.1
Lambeth	Apr. 1915	60	1,045.6	3,361	7.2
Lanark	Sep. 1921	60	300.3	1,201	0.5
Lancaster	May 1921	60	309.6	1,097	4.5
Leamington	Feb. 1919	60	6,073.8	28,630	8.9
Lindsay	Mar. 1916	60	8,026.4	40,651	9.2
Listowel	June 1916	60	3,006.0	12,900	6.1
London	Jan. 1911	60	66,945.0	368,851	5.6
	Sep. 1917	60	1,822.0	6,606	6.2
	Jan. 1931	60	7,291.0	32,017	3.4
	June 1952	60	382.6	1,385	11.6
	Feb. 1915	60	677.3	2,364	5.1
Lucknow	Jan. 1921	60	745.0	2,948	16.1
Lynden	Nov. 1915	60	321.7	1,185	10.8
Madoc	Mar. 1916	60	994.4	3,745	6.3
Magnetawan	July 1951	60	79.7	307	4.1
Markdale	Mar. 1916	60	709.6	2,768	13.8
Markham	Apr. 1920	60	3,077.7	11,155	14.8
Marmora	Jan. 1921	60	799.5	3,222	4.9
Martintown	May 1921	60	180.0	549	6.1
Maxville	Feb. 1921	60	450.7	1,634	5.2
Meaford	Jan. 1924	60	2,621.6	12,701	12.1
Merlin	Dec. 1922	60	306.1	1,178	8.0
Merrickville	July 1950	60	443.7	1,943	8.2
Merritton	Nov. 1920	60	18,718.0	103,813	20.1
Midland	July 1911	60	7,567.3	34,300	6.7
Mildmay	Apr. 1930	60	599.0	1,988	11.1
Millbrook Milton Milverton Mimico Mitchell	Mar. 1916	60	486.4	1,770	8.8
	Apr. 1913	60	4,738.0	20,719	7.7
	June 1916	60	923.1	3,220	8.0
	May 1912	60	8,851.0	41,709	8.0
	Sep. 1911	60	1,918.4	7,834	2.7

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES

Municipality	Date of first delivery	Frequency December 1959	Peak load December 1959	Energy supplied during 1959	Increase or decrease in energy consumption 1959 over 1958
Southern Ontario System—Continued		cycles	kw	'000 kwh	per cent
Moorefield	Mar. 1918	60	228.6	742	7.1
Morrisburg	June 1938	60	1,440.1	5,876	3.3
Mount Brydges	Mar. 1915	60	338.2	1,372	5.2
Mount Forest	Dec. 1915	60	1,980.4	7,529	11.7
Napanee	Mar. 1916	60	3,294.8	15,298	2.7
Neustadt.	Dec. 1918	60	270.4	969	6.1
Newboro	Dec. 1948	60	98.8	356	8.1
Newburgh	Mar. 1916	60	260.6	1,022	5.6
Newbury.	Mar. 1921	60	115.6	427	7.0
Newcastle	Mar. 1916	60	858.5	3,761	8.0
New Hamburg Newmarket New Toronto Niagara Niagara Falls	Mar. 1911 Dec. 1920 Feb. 1914 Aug. 1919 Dec. 1915	60 60 60 60	1,377.3 6,312.0 27,187.2 1,858.6 17,213.5	5,622 27,540 157,406 8,604 86,783	5.7 6.6 23.9 1.0 3.8
North York Twp	Nov. 1923	60	170,847.3	755,466	13.9
Norwich	May 1912	60	1,045.0	4,320	6.2
Norwood	Feb. 1921	60	579.8	2,461	10.2
Oakville	Jan. 1930	60	9,786.0	45,801	9.7
Oil Springs	Feb. 1918	60	263.5	1,249	5.1
Omemee	Jan. 1918	60	435.2	1,748	8.7
Orangeville	July 1916	60	3,241.8	13,651	13.6
Orillia	Jan. 1954	60	5,196.2	16,290	6.3
Orono	Mar. 1916	60	492.1	1,969	16.7
Oshawa	Mar. 1916	60	64,727.0	308,758	6.6
Ottawa Otterville Owen Sound Paisley Palmerston	Jan. 1914 Feb. 1916 Dec. 1915 Sep. 1923 July 1916	60 60 60 60	175,473.5 415.6 11,750.6 453.5 1,170.6	741,508 1,471 54,963 1,956 5,014	11.8 1.0 7.1 12.7 0.2
Paris Parkhill Parry Sound Penetanguishene Perth	Feb. 1914	60	3,585.1	15,669	6.8
	May 1920	60	835.6	3,323	14.4
	Aug. 1946	60	1,944.7	8,586	5.3
	July 1911	60	2,696.9	12,776	8.5
	Feb. 1919	60	3,872.4	16,856	11.1
Peterborough Petrolia Pickering Picton Plattsville	Mar. 1913	60	37,898.9	199,189	4.6
	May 1916	60	1,692.8	7,587	6.2
	July 1958	60	859.8	3,705	*
	Apr. 1919	60	3,890.3	17,151	4.7
	Dec. 1914	60	644.5	2,608	6.2
Point Edward. Port Burwell. †Port Carling. Port Colborne Port Credit.	Nov. 1916	60	4,306.2	17,236	34.3
	Aug. 1955	60	230.3	932	6.9
	Apr. 1929	60	368.0	2,298	12.8
	Mar. 1920	60	6,926.4	29,523	9.3
	Aug. 1912	60	9,922.5	64,340	5.1

[†] Local system

^{*} Operated only for six months in 1958

TO MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

		7	1		
Municipality	Date of first delivery	Frequency December 1959	Peak load December 1959	Energy supplied during 1959	Increase or decrease in energy consumption 1959 over 1958
Southern Ontario System—Continued		cycles	kw	'000 kwh	per cent
Port Dalhousie Port Dover Port Elgin Port Hope Port McNicoll	Nov. 1912	60	1,566.0	8,362	0.1
	Dec. 1921	60	1,885.9	9,579	9.7
	Apr. 1930	60	1,058.6	5,307	4.7
	Mar. 1916	60	7,949.2	39,310	6.9
	Jan. 1915	60	1,420.9	3,224	3.6
Port Perry Port Rowan Port Stanley Prescott Preston	Sep. 1922	60	1,357.0	5,424	8.5
	Nov. 1926	60	368.0	1,074	4.0
	Apr. 1912	60	1,003.5	5,113	0.5
	Dec. 1913	60	3,518.7	15,673	5.5
	Jan. 1911	60	9,043.6	41,218	8.2
Priceville. Princeton. Queenston. Renfrew. Richmond.	Mar. 1921	60	41.4	178	12.2
	Jan. 1915	60	298.4	994	5.1
	Mar. 1921	60	345.7	1,561	6.0
	Dec. 1944	60	3,602.0	14,189	15.2
	Aug. 1928	60	564.0	2,102	15.6
Richmond Hill. Ridgetown Ripley Riverside. Rockland.	June 1925	60	9,495.9	36,940	14.1
	Dec. 1915	60	1,346.2	5,403	7.5
	Jan. 1921	60	314.2	1,210	10.7
	Nov. 1922	60	6,832.0	25,950	12.7
	Apr. 1954	60	1,117.1	3,928	16.2
Rockwood. Rodney Rosseau Russell St. Catharines	Sep. 1913	60	435.4	1,770	7.9
	Feb. 1917	60	448.0	1,844	5.8
	July 1931	60	80.3	366	16.6
	Feb. 1926	60	292.4	1,155	8.8
	Apr. 1914	60	43,041.7	209,441	2.9
St. Clair Beach St. George St. Jacobs St. Mary's St. Thomas	Nov. 1922	60	624.0	2,456	8.3
	Sep. 1915	60	522.2	2,003	12.1
	Sep. 1917	60	445.3	1,755	4.6
	May 1911	60	10,523.5	66,930	29.9
	Apr. 1911	60	14,941.4	75,279	7.0
Sandwich East Twp Sandwich West Twp Sarnia Scarborough Twp Seaforth	Oct. 1956	60	6,176.6	28,349	11.5
	Mar. 1956	60	11,968.1	48,267	10.7
	Dec. 1916	60	119,580.8	842,217	*
	Aug. 1918	60	139,804.8	587,138	10.5
	Nov. 1911	60	1,688.6	7,011	4.8
Shelburne Simcoe. Smith's Falls Smithville Southampton	July 1916	60	853.0	3,450	7.8
	Apr. 1915	60	7,652.8	35,893	7.0
	Sep. 1918	60	7,642.2	31,671	7.9
	Jan. 1930	60	603.0	2,174	15.6
	Apr. 1930	60	931.0	5,256	6.5
Springfield Stamford Twp Stayner Stirling Stoney Creek	Aug. 1917	60	237.8	964	11.6
	Nov. 1916	60	17,640.0	80,110	10.7
	Oct. 1913	60	1,161.1	4,039	0.6
	Mar. 1916	60	892.0	3,526	7.2
	Jan. 1930	60	4,042.3	15,887	3.0

^{*} An industrial customer formerly served by the Commission was taken over by the municipality in the month of January 1959.

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES

Municipality	Date of first delivery	Frequency December 1959	Peak load December 1959	Energy supplied during 1959	Increase or decrease in energy consumption 1959 over 1958
Southern Ontario System—Continued		cycles	kw	'000 kwh	per cent
Stouffville Stratford Strathroy Streetsville Sunderland	Sep. 1923 Jan. 1911 Dec. 1914 Dec. 1934 Nov. 1914	60 60 60 60	2,130.5 15,608.2 3,383.4 3,156.0 446.0	7,612 74,283 16,187 13,028 1,594	10.3 2.9 2.5 12.8 9.6
Sundridge Sutton Swansea Tara Tavistock	June 1952 Aug. 1923 Oct. 1923 Oct. 1937 Feb. 1918	60 60 60 60	340.6 901.2 6,474.0 404.7 883.8	1,378 4,463 31,894 1,552 3,591	15.3 1.0 9.6 22.3 3.9
Tecumseh Teeswater Thamesford Thamesville Thedford	Nov. 1922	60	1,436.6	5,708	5.5
	Dec. 1920	60	623.2	2,764	10.2
	Feb. 1914	60	717.6	2,805	27.6
	Oct. 1915	60	591.6	2,572	8.3
	May 1922	60	435.6	1,773	10.8
Thornbury Thorndale Thornton Thorold Tilbury	Sep. 1944	60	715.7	2,822	22.2
	Mar. 1914	60	266.6	876	9.7
	Nov. 1918	60	135.7	435	2.4
	Jan. 1921	60	11,254.1	66,945	10.9
	Apr. 1915	60	1,211.9	5,026	5.5
Tillsonburg	Aug. 1911	60	5,385.1	20,653	7.1
	June 1911	60	578,825.0	3,275,425	4.2
	Aug. 1913	60	49,766.1	297,699	3.2
	Oct. 1918	60	453.8	1,746	11.0
	Dec. 1923	60	20,276.8	107,284	73.9
Trenton. Tweed Uxbridge Vankleek Hill Victoria Harbour	Mar. 1916	60	15,922.4	86,225	6.2
	Mar. 1916	60	1,135.2	4,422	7.2
	Sep. 1922	60	1,498.4	6,989	12.0
	June 1952	60	595.8	2,248	12.6
	July 1914	60	330.2	1,408	15.6
Walkerton	Apr. 1930	60	2,879.7	10,321	8.8
Wallaceburg	Feb. 1915	60	7,670.0	44,111	4.6
Wardsville	June 1921	60	201.6	731	18.1
Warkworth	Oct. 1923	60	292.4	993	15.8
Wasaga Beach	Jan. 1953	60	233.4	2,374	8.8
Waterdown. Waterford. Waterloo. Watford. Waubaushene.	Nov. 1911	60	1,140.5	4,558	4.9
	Apr. 1915	60	1,094.6	3,940	6.8
	Dec. 1910	60	15,604.8	75,085	10.1
	Sep. 1917	60	1,210.8	4,825	17.3
	Dec. 1914	60	274.0	1,247	5.3
Welland. Wellesley. Wellington West Lorne. Weston.	Sep. 1917	60	14,194.6	68,056	10.9
	Nov. 1916	60	439.8	1,544	8.9
	Apr. 1919	60	585.2	2,402	5.4
	Jan. 1917	60	916.9	3,683	0.9
	Aug. 1911	60	9,029.8	44,918	8.3

TO MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

Municipality	Date of first delivery	Frequency December 1959	Peak load December 1959	Energy supplied during 1959	Increase or decrease in energy consumption 1959 over 1958
SOUTHERN ONTARIO SYSTEM—Concluded		cycles	kw	'000 kwh	per cent
Westport. Wheatley. Whitby Wiarton. Williamsburg.	Nov. 1931	60	399.2	1,547	9.6
	Feb. 1924	60	808.2	3,291	5.3
	Mar. 1916	60	11,026.8	52,401	13.9
	Apr. 1930	60	1,315.9	5,940	11.6
	Apr. 1915	60	239.6	878	0.5
Winchester Windermere Windsor Wingham Woodbridge	Jan. 1914	60	1,062.4	5,219	12.2
	June 1930	60	59.5	490	8.5
	Oct. 1914	60	77,946.9	383,462	5.1
	Dec. 1920	60	2,276.2	9,808	6.7
	Dec. 1914	60	2,173.8	8,904	3.5
Woodstock Woodville Wyoming York Twp. Zurich	Jan. 1911	60	17,598.0	92,677	9.7
	Nov. 1914	60	218.0	806	6.4
	Nov. 1916	60	353.9	1,415	7.4
	Jan. 1913	60	66,200.0	327,266	4.3
	Sep. 1917	60	399.0	1,452	9.8
Northern Ontario Properties		,	:		
Atikokan Twp †Beardmore †Blind River Cache Bay Capreol	Dec. 1944	60	3,715.0	21,398	23.2
	June 1937	60	420.6	1,829	1.5
	Nov. 1954	60	2,023.5	9,377	6.9
	Dec. 1950	60	276.3	1,453	50.5
	May 1935	60	1,914.0	7,456	4.9
Chapleau Twp	Aug. 1955	60	334.0	834	15.4
	Jan. 1945	60	1,053.3	4,740	7.8
	Dec. 1952	60	2,766.6	13,387	5.9
	Sep. 1956	60	1,060.9	4,147	14.8
	Feb. 1954	60	2,693.6	13,867	5.9
†Elk Lake Townsite †Englehart Fort William †Geraldton †Gogama	Jan. 1945	60	395.9	1,348	17.3
	Jan. 1945	60	1,018.3	4,190	8.3
	Oct. 1926	60	35,072.0	204,216	5.1
	Feb. 1937	60	1,407.4	6,168	2.1
	Aug. 1956	60	196.5	819	25.5
†Haileybury	Jan. 1945 Apr. 1952 Feb. 1955 Oct. 1939 Dec. 1954	60 60 60 60 60	1,549.2 1,103.5 573.4 261.4	6,972 4,844 2,983 957 597	3.8 4.8 2.4 28.1
†Jellicoe Townsite	Dec. 1951	60	47.8	271	9.3
Kapuskasing	Aug. 1953	60	3,937.6	16,143	2.8
†Kearns Townsite	Dec. 1938	60	318.0	1,270	16.0
†King Kirkland Townsite	Dec. 1936	60	250.0	1,056	112.5
†Kirkland Lake	Jan. 1945	60	9,853.4	40,434	17.2

[†] Local system

^{*} Transferred to Rural Operating Area August 1, 1959.

POWER AND ENERGY SUPPLIED IN WHOLESALE QUANTITIES TO MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

Municipality	Date of first delivery	Frequency December 1959	Peak load December 1959	Energy supplied during 1959	Increase or decrease in energy consumption 1959 over 1958
Northern Ontario Properties —Concluded		cycles	kw	'000 kwh	per cent
Larder Lake Twp Latchford Massey †Matachewan Twp †Matheson	Mar. 1949 Apr. 1950 Dec. 1952 Apr. 1935 Dec. 1935	60 60 60 60	923.3 130.1 488.5 295.3 551.0	3,974 553 1,941 1,162 2,404	10.9 5.1 27.2 2.7 3.7
†Mattawa	Jan. 1953	60	1,352.8	5,975	1.0
McGarry	Mar. 1949	60	1,047.9	4,033	3.8
†New Liskeard	Jan. 1945	60	3,344.0	15,742	3.8
Nipigon Twp.	Jan. 1925	60	1,663.6	8,152	7.9
North Bay	Mar. 1916	60	15,976.7	73,064	4.0
†Pickle Lake Landing Townsite Port Arthur †Powassan Rainy River †Red Lake Townsite	Aug. 1952	60	118.0	449	23.3
	Dec. 1910	60	42,591.4	198,069	6.4
	Mar. 1916	60	635.0	2,315	6.5
	Jan. 1958	60	484.4	2,160	71.9
	June 1938	60	1,553.9	5,867	8.3
Red Rock	Feb. 1948	60	887.8	4,111	5.4
	Nov. 1948	60	1,309.1	5,652	6.6
	Sep. 1939	60	1,673.5	8,473	5.6
Townsite Sturgeon Falls	Jan. 1945	60	2,442.3	9,362	2.9
	Apr. 1951	60	2,479.1	10,312	9.1
Sudbury Terrace Bay Thessalon †Thornloe †Timmins	Feb. 1930	60	28,921.3	140,262	3.9
	Jan. 1948	60	1,417.4	7,106	2.4
	May 1956	60	755.3	3,334	11.3
	Jan. 1945	60	40.2	182	1.7
	Jan. 1945	60	15,321.5	62,647	3.0
Webbwood	Dec. 1952 Apr. 1954 Apr. 1958	60 60 60	163.5 3,393.2 322.6	600 14,732 1,945	3.1 16.4

[†] Local system

APPENDIX II—FINANCIAL

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FIXED

Statement Showing Changes during

		Chan		
Property	Balance January 1, 1959	Placed in service	Equipment relocated and reclassified	
	\$	\$	\$	
Power System Hydro-Electric Generating Stations Niagara River				
Sir Adam Beck-Niagara No. 1	83,876,038	44,776		
Sir Adam Beck-Niagara No. 2	311,473,094	377,101		
Ontario Power	21,889,392	85,676		
Toronto Power	11,483,429	63,451		
DeCew FallsSt. Lawrence River	27,441,600	15,810		
St. Lawrence Power Project Ottawa River	131,232,426	151,080,420	1,152,973	
Des Joachims	73,185,364	63,713		
Otto Holden	57,982,097	20,207		
Chenaux	29,353,295	858		
Chats Falls.	9,264,593	54,175		
Ogoki Diversion	5,051,394	1,561		
Stewartville	12,450,825			
Barrett ChuteOther properties	4,884,396 21,599,666	1,149 46,093	448,094	
	801,167,609	151,100,788	1,601,067	
HERMAL-ELECTRIC GENERATING STATIONS				
I. Clark Keith—Windsor	46,454,316	1,275	14,642	
Richard L. Hearn—Toronto	47,873,634	101,229	17,072	
Lakeview—Toronto.				
Other properties	415,803	72,617		
_	94,743,753	175,121	14,642	
Total generating stations	895,911,362	151,275,909	1,615,709	
RANSFORMER STATIONS				
230-kv	83,892,897	8,438,612	3,310,020	
Other—Niagara Division	102,315,449	6,349,840	2,140,465	
—Georgian Bay Division	7,477,350	122,138	32,301	
—Eastern Ontario Division	22,017,628	2,791,748	305,842	
Total transformer stations	215,703,324	17,702,338	1,507,698	
RANSMISSION LINES				
230-kv	93,734,966	5,710,745	1,525,141	
Other—Niagara Division	61,305,425	3,946,524	63,051	
—Georgian Bay Division —Eastern Ontario Division	8,107,299	497,312	4,862	
Lastern Ontario Division	25,902,818	602,980	1,485,071	
Total transmission lines	189,050,508	10,757,561	107,983	

SYSTEM

ASSETS

Year 1959 and Balances at December 31, 1959

ervice				
uring year				
Sales	Balance	Under	Total	77
and	December 31,	construction December 31,	fixed assets	Expenditure
retirements	1959	1959	December 31, 1959	during 1959
\$	\$	\$	\$	\$
24,600	83,896,214	900 906	04 (07 110	CC0 = 1.0
11,330	311,084,663	800,896 116,679	84,697,110	660,546
	21,975,068	9,560	311,201,342 21,984,628	957,659 95,236
	11,546,880		11,546,880	27,740
31,520	27,425,890	4,111	27,430,001	18,773
	281,159,873	3,316,921	284,476,794	25,935,450
	73,249,077	17,060	73,266,137	26,265
2,650	58,004,954	177,257	58,182,211	190,487
2,540	29,351,613	5,779	29,357,392	310
15,854	9,302,914	21,531	9,324,445	59,325
	5,052,955		5,052,955	1,561
352	12,450,473		12,450,473	
530 747,123	4,885,015 20,450,542	2,310 117,423	4,887,325 20,567,965	2,163 34,965
831,199	949,836,131	4,589,527	954,425,658	26,095,162
	46,440,949	6,082	46,447,031	6,092
	47,974,863	74,264,249	122,239,112	31,452,645
2	488,418	18,505,104 698,594	18,505,104 1,187,012	11,976,603 472,160
2	94,904,230	93,474,029	188,378,259	43,907,500
831,201	1,044,740,361	98,063,556	1,142,803,917	70,002,662
1,027,417	94,614,112	2,254,862	96,868,974	8,261,626
4,007,593	102,517,231	2,736,816	105,254,047	7,317,379
160,924	7,470,865	186,944	7,657,809	281,630
407,052	24,708,166	846,810	25,554,976	2,863,219
5,602,986	229,310,374	6,025,432	235,335,806	18,723,854
157,995	100,812,857	2,676,608	103,489,465	5,533,517
556,805	64,758,195	2,057,848	66,816,043	3,422,907
162,753	8,446,720	312,217	8,758,937	520,485
107,093	24,913,634	905,408	25,819,042	932,447
984,646	198,931,406	5,952,081	204,883,487	10,409,356

FIXED

Statement Showing Changes during

			Change
Property	Balance January 1, 1959	Placed in service	Equipment relocated and reclassified
Power System—(continued)	\$	\$	\$
Local Systems Georgian Bay Division	366,117	41,082	36,908
Communications	11,436,634	585,394	156,599
Total power system	1,312,467,945	180,362,284	119,719
Administrative and Service Buildings and Equipment Buildings Office and Service Equipment	6,444,250	669,712 937,192	97,844
Total administrative and service buildings and equipment	28,777,981	1,606,904	97,844
Rural Power District	201,239,035	16,130,428	21,875
Total fixed assets	1,542,484,961	198,099,616	

SYSTEM

ASSETS

Year 1959 and Balances at December 31, 1959

service				
during year		-		
· Sales and retirements	Balance December 31, 1959	Under construction December 31, 1959	Total fixed assets December 31, 1959	Expenditures during 1959
\$	\$	\$	\$	\$
18,296	425,811	2,099	427,910	39,059
334,821	11,530,608	208,386	11,738,994	410,051
7,771,950	1,484,938,560	110,251,554	1,595,190,114	99,584,982
244,098 172,373	22,857,189 7,209,069	461,361	23,318,550 7,209,069	934,558 937,192
416,471	30,066,258	461,361	30,527,619	1,871,750
4,176,567	213,214,771	1,593,331	214,808,102	16,290,202
12,364,988	1,728,219,589	112,306,246	1,840,525,835	117,746,934

Summary of Sales and Retirements during 1959

Charged to operations\$	71,801
Charged to frequency standardization	619,353
Charged to reserve for stabilization of rates and contingencies	200,798
Charged to accumulated depreciation	8,612,912
Proceeds from sales	2,860,124

\$ 12,364,988

ACCUMULATED DEPRECIATION

December 31, 1959

	Power System	Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1959	\$ 140,137,081	\$ 42,125,138	\$ 5,935,172	\$ 188,197,391
Interest at 3% per annum on accumulated depreciation on plant not fully				
depreciatedProvision in the year	3,797,355	1,247,380	60,964	5,105,699
—direct (Note 1) —indirect	13,035,967 3,744	5,786,017	1,011,256	18,821,984 1,015,000
contingencies (Note 2) Special allowance (Note 3) Salvage recoveries less removal costs of assets re-	4,050,710 8,000,000			4,050,710 8,000,000
tired	137,050	192,402	9,762	45,590
equipmentOther adjustments	109,034 104,518	40,934 6,457	68,100 7,822	118,797
Deduct:	168,883,291	49,398,328	7,073,552	225,355,171
Cost of fixed assets retired less proceeds from sales	5,129,291	3,314,433	169,188	8,612,912
Balances at December 31, 1959	163,754,000	46,083,895	6,904,364	216,742,259

Note 1—The provision for the year includes a special appropriation of \$1,330,255 to provide for the retirement or expected retirement for economic reasons of certain of the older hydraulic generating stations before the expiration of their normal useful life.

Note 2—The transfer of \$4,050,710 represents a retroactive adjustment to reflect revised estimated service lives for older generating stations purchased by the Commission in prior years.

Note 3—This amount provides for the estimated loss on 25-cycle power system equipment to be retired as a result of frequency standardization, and has been charged to frequency standardization costs to be written off in future years.

SYSTEM

FREQUENCY STANDARDIZATION ACCOUNT December 31, 1959

Balance at debit at January 1, 1959	\$	\$ 191,961,575 1,039,802
Expenditures for frequency standardization work completed during year. Provision for the estimated loss on 25-cycle power system equipment to be retired as a result of frequency standardization (credited to accumulated depreciation).	6,795,173 8,000,000	193,001,377
Less industrial customers' contributions	14,795,173 287,802	
Less portion of cost charged to cost of power for the year	14,507,371 8,155,021	6,352,350
Balance at debit at December 31, 1959	_	199,353,727

EXCHANGE DISCOUNT AND PREMIUM ON FUNDED DEBT December 31, 1959

	Discount	Premium	Net discount or premium
Exchange discount and premium on funded debt issued in United States funds:	\$	\$	\$
Balances at January 1, 1959	3,859,876	4,746,301	886,425
February 1, 1959	1,733,951		1,733,951
Less discount on bonds redeemed during	5,593,827	4,746,301	847,526
1959	97,489		97,489
Balances at December 31, 1959	5,496,338	4,746,301	750,037

STATEMENTS OF RESERVES,

Stabilization of Rates

		Power System		
	General	Stream-flow variation	Maximum power cost	
Balances at January 1, 1959	\$ 94,710,280	\$ 18,530,268	\$ 461,032	
Consolidation of stream-flow variation and Power System general portions (Note 1)	18,530,268	18,530,268		
Power District general portions (Note 2)				
Add:	113,240,548		461,032	
Interest for year on reserve balances (Note 3)	4,366,534		18,441	
Provision in the year Excess of revenue over costs of supplying power to				
Rural Power District customers Profit on redemption of funded debt and sale of				
investments, net	505,713			
Dila	118,112,795		479,473	
Deduct: Expenditures during yearWithdrawal in year applied in reduction of cost				
of power Transfer to accumulated depreciation (Note 4) Write-off of certain fixed assets in a rural operating area to reflect a physical inventory taken during	4,050,710		18,441	
the year				
Balances at December 31, 1959	114,062,085		461,032	

Note 1—As of January 1, 1959 the portion of the reserve previously designated as "Stream-flow variation" was consolidated with the general portion of the Power System reserve, which portion is available to meet unfavourable stream-flow variations and other contingencies.

Note 2—As of January 1, 1959 the portion of the reserve previously designated as "Rural rates suspense" was combined with the general portion of the Rural Power District reserve, as the two portions are available for the same purposes.

Note 3—Interest on maximum power cost was calculated at 4%, and on other portions of the reserve at a rate approximating actual earnings on the investments held for the reserves.

Note 4—The transfer of \$4,050,710 represents a retroactive adjustment to reflect revised estimated service lives for older generating stations purchased by the Commission in prior years.

SYSTEM (

DECEMBER 31, 1959

and Contingencies

Rural Power District				
General	Rates suspense	Sub-total	Nuclear research	Total
\$ 1,357,660	\$ 398,451	\$ 115,457,691	\$ 4,665,767	\$ 120,123,458
398,451	398,451			
1,756,111		115,457,691	4,665,767	120,123,458
68,835		4,453,810	171,787 405,065	4,625,597 405,065
1,085,604		1,085,604		1,085,604
		505,713		505,713
2,910,550		121,502,818	5,242,619	126,745,437
		• • • • • • • • • • • • • • • • • • • •	1,946,671	1,946,671
		18,441 4,050,710		18,441 4,050,710
200,798		200,798		200,798
2,709,752		117,232,869	3,295,948	120,528,817

Sinking Fund

	Power System and Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1959	\$ 254,207,032	\$ 3,287,495	\$ 257,494,527
Interest at 4% per annum on reserve balances Provision in the year—direct	10,168,281 16,084,460 2,042	131,500 235,573	10,299,781 16,084,460 237,615
	280,461,815	3,654,568	284,116,383
Deduct credits resulting from matured sinking funds (see note):	1		
Interest	466,691 122,856	35,163 9,257	501,854 132,113
	589,547	44,420	633,967
Balances at December 31, 1959	279,872,268	3,610,148	283,482,416

Note: The matured sinking funds at January 1, 1959 amounted to \$12,546,340.

STATEMENT OF THE ALLOCATION

	Power and energy supplied during year (principal bases of cost allocation)		Cost		
Municipality	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation (Note 2)	Provision for nuclear research (Note 3)
		megawatt-			
	kw	hours	\$	\$	\$
Acton	3,525.0	16,784.0	135,775.14	17,625.00	332.33
Ailsa Craig	276.8	1,194.8	11,194.01	1,384.00	25.00
Ajax	4,914.8	26,122.7	170,765.52		487.53
Alexandria	1,564.9	7,274.5	62,398.32		145.97
Alfred	344.5	1,421.2	13,232.73		30.53
Alliston	1,533.6	8,779.5	65,275.80		157.71
Almonte	1,298.1	5,293.5	46,693.66		114.50
Alvinston	228.0	886.4	9,006.84	1,140.00	19.72
Amherstburg	2,857.9	16,354.1	115,913.32	14,289.50	293.84
Ancaster Twp	1,947.7	9,532.4	68,980.18	9,738.50	185.92
Apple Hill	89.3	390.0	3,462.69		8.10
Arkona	273.0	1,248.5	10,895.03	1,365.00	25.28
Arnprior	3,770.3	18,179.2	138,736.30		357.47
Arthur	642.6	2,880.9	25,577.59		58.99
Athens	349.8	1,706.2	13,567.56		33.34
Aurora	3,974.1	21,879.3	144,794.37	19,870.50	400.93
Avonmore	39.6	162.0	1,462.65		3.50
Aylmer	3,778.0	18,690.7	129,200.86	18,890.00	362.42
Ayr	623.7	2,649.6	24,292.87	3,118.50	55.96
Baden	785.2	3,171.7	27,021.09	3,926.00	69.00
Bancroft	1,132.7	4,927.1	44,422.12		102.65
Barrie	14,539.9	79,007.8	492,720.81		1,457.63
Barry's Bay	306.9	1,416.2	12,736.28		28.54
Bath	271.6	1,251.8	10,583.50		25.24
Beachville	2,458.4	15,874,9	92,795.55	12,292.00	268.80
Beamsville	1,315.4	6,576.6	47,408.31	6,577.00	126.79
Beaverton	948.3	4,618.8	38,703.43		90.33
Beeton	396.9	1,818.4	17,436.49		36.79
Belle River	559.2	2,787.8	22,243.20	2,796.00	53.84
Belleville	19,849.0	107.673.4	659,916.45		1,988.24
Blenheim	1,235.2	6,042.3	47,222.16	6,176.00	117.88
Bloomfield	355.0	1,626.0	12,974.43		32.90
Blyth	552.4	2,596.6	22,070.05	2,762.00	51.78
BobcaygeonBolton	625.8 896.1	3,014.4 4,477.0	24,872.24 35,616.57	4,480.50	59.31 86.35
Bothwell	313.8	1,350.2	12,477.21	1,569.00	28.31
Bowmanville	5,625.8	27,264.6	191,281.37		534.64
Bracebridge	40.3	14.2	2,343.76		2.23
Bradford	1,450.9	7,953.6	56,956.85		146.07

SYSTEM

			1			
					Annua	l rates on
primary power					a kilov	watt basis
			Amounts			
			billed			
Credit			for primary			
resulting	Net revenue		power	Balance		
from	from	Total cost	(municipalities	credited		
matured sinking fund	direct customers	of	at interim	or		
Shiking rund	customers	primary power	rates)	charged	Interim	Actual
\$	\$	\$	\$	\$	\$	\$
1,532.94	1,094.57	151,104.96	156,863.24	5,758.28	44.50	42.87
164.64	85.95 1,526.11	12,352.42	12,803.53	451.11	46.25	44.62
	485.92	169,726.94 62,058.37	178,161.49 63,770.03	8,434.55	36,25	34.53
	106.97	13,156.29	13,691.90	1,711.66 535.61	40.75 39.75	39.66 38.20
172.46	476.21 403.08	64,784.84	68,626.36	3,841.52	44.75	42.24
	70,79	46,405.08 10,095.77	48,028.78	1,623.70	37.00	35.75
1,697.00	887.42	127,912.24	10,601.24 135,751.04	505.47 7,838.80	46.50	44.28
************	604.79	78,299.81	79,367,77	1,067.96	47.50 40.75	44.76 40.20
		, 0, 2, 102	12,007.17	1,007.50	40.75	40.20
	27.73	3,443.06	3,484.02	40.96	39.00	38.55
	84.77	12,200.54	12,082.09	118.45	44.25	44.68
	1,170.73	137,923.04	140,441.82	2,518.78	37.25	36.58
• • • • • • • • • • • • •	199.54	25,437.04	26,829.57	1,392.53	41.75	39.58
***********	108.62	13,492.28	13,555.71	63.43	38.75	38.57
	1,234.02	163,831.78	166,912.55	3,080.77	42.00	41.22
	12.30	1,453.85	1,463.36	9.51	37.00	36.75
240.61	1,173.12	147,039.55	162,454.36	15,414.81	43.00	38.92
77.02	193.67	27,196.64	27,442.08	245.44	44.00	43.61
1,490.61	243.82	29,281,66	29,050.56	231.10	37.00	37.29
	351.72	44,173.05	54,367.60	10,194.55	48.00	39.00
6,323.50	4,514.85	483,340.09	516,167.94	32,827.85	35.50	33.24
********	95.30	12,669.52	14,270.87	1,601.35	46.50	41.28
1,817.88	84.34 763.37	10,524.40 102,775.10	10,726.87	202.47 6,625.17	39.50 44.50	38.75 41.81
1,017.00	703.37	102,773.10	109,400.27	0,023.17	44,30	41.01
	408.45	53,703.65	60,179.57	6,475.92	45.75	40.83
	294.46	38,499.30	42,674.66	4,175.36	45.00	40.60
163.35	123.24	17,186.69	18,157.81	971.12	45.75	43.30
• • • • • • • • • • • • • • • • • • • •	173.64	24,919.40	25,863.39	943.99	46.25	44.56
•••••	6,163.40	655,741.29	679,829.09	24,087.80	34.25	33.04
213.73	383.55	52,918.76	55,582.15	2,663.39	45.00	42.84
	110.23	12,897.10	12,692.14	204.96	35.75	36.33
• • • • • • • • • • • • • • • • • • • •	171.53	24,712.30	25,411.16	698.86	46.00	44.73
***************************************	194.32	24,737.23	24,561.36	175.87	39.25	39.53 44.37
144.10	278.25	39,761.07	40,996.59	1,235,52	45.75	44,37
182.73	97.44	13,794.35	15,691.67	1,897.32	50.00	43.95
	1,746.89	190,069.12	195,496.86	5,427.74	34.75	33.79
	12.52	2,333.47	1,328.25	1,005.22	33.00	57.90
51.68	450.53	56,600.71	58,036.67	1,435.96	40.00	39.01
	276.73	28,249.65	30,078.85	1,829.20	33.75	31.70

STATEMENT OF THE ALLOCATION

	supplied d (princip	nd energy luring year val bases llocation)			Cost o
Municipality	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation (Note 2)	Provision for nuclear research (Note 3)
		megawatt-			
	kw	hours	\$	\$	\$
Brampton	9,979.3	47,591.2	325,735.41	49,896.50	941.51
Brantford	41,398.6	213,437.7	1,350,877.01	206,993.00	4,047.94
Brantford Twp	4,587.7	23,349.8	163,221.25	22,938.50	445.89
Brechin	112.3	491.4	4,575.67		10.20
Bridgeport	710.2	3,270.4	25,382.58	3,551.00	65.97
Brigden	211.8	872.4	8,304.13	1,059.00	18.76
Brighton	1,205.8	5,946.3	46,791.43		115.50
Brockville	14,423.3	72,858.5	464,718.83		1,396.96
Brussels	569.7	2,543.2	22,520.34	2,848.50	52.21
Burford	699.1	3,023.9	25,025.45	3,495.50	63.20
Burgessville	173.0	615.2	6,081.25	865.00	14.46
Burk's Falls	368.7	1,838.1	15,274.60		35.49
Burlington	25,137.2	130,407.9	883,622.29	125,686.00	2,465.09
Calledonia	878.7	4,387.2	31,829.93	4,393.50	84.65
Campbellford	257.5	158.5	6,436.74		14.80
Campbellville	138.3	651.6	5,324.40	691.50	12.98
Cannington	560.8	2,596.0	23,538.49		52.21
Cardinal	821.2	4,158.1	33,396.28		79.63
Carleton Place	2,816.7	14,908.1	115,014.01		278.84
Casselman	559.8	2,248.0	21,796.20		49.07
Cayuga	365.7	1,659.0	14,140.34	1,828.50	33.74
Chalk River	361.7	1,980.5	13,471.75		36.40
Chatham	17,867.7	89,750.4	579,213.83	89,338.50	1,726.06
Chatsworth	241.7	1,041.2	9,959.55		21.82
Chesley	1,091.7	4,501.6	40,939.70		96.74
Chesterville	1,104.7	5,379.5	45,069.48		105.21
Chippawa	1,012.9	5,188.8	37,628.51	5,064.50	98.74
Clifford	324.3	1,555.2	13,005.31	1,621.50	30.67
Clinton	1,928.9	9,673.0	70,670.47	9,644.50	186.19
Cobden	528.7	2,324.4	18,095.01		48.13
Cobourg	7,977.0	40,983.4	298,716.65		778.72
Colborne	739.9	3,660.8	30,749.16		70.98
Collingua d	484.9	2,243.0	18,358.94		45.13
Comber Comber	5,860.0	26,872.9	227,672.74	1 204 50	543.34
Comber	256.9	1,026.4	10,057.41	1,284.50	22.48
Cookstown	287.0	1,304.4	12,539.40		26.51
Countrield	224.6	944.8	8,048.84	1,123.00	20.07
Creamore	148.4	671.2	5,704.13	742.00	13.68
Creemore	434.0	1,965.6	17,771.34	1 244 00	40.03
doi:1100d	248.8	934.4	9,644.44	1,244.00	21.24

SYSTEM

primary power					Annual a kilowa	
				-		
•			Amounts			
Credit			billed			
resulting	Net revenue		for primary power	Balance		
from	from	Total cost	(municipalities	credited		
matured	direct	of	at interim	or		
sinking fund	customers	primary power	rates)	charged	Interim	Actual
\$	\$	\$	\$	\$	\$	\$
4,162.37	3,098.72	369,312.33	371,730.15	2,417.82	37.25	37.01
4,751.07	12,854.86	1,544,312.02	1,583,494.87	39,182.85	38.25	37.30
	1,424.55 34.88	185,181.09 4,550.99	188,093.99	2,912.90	41.00	40.37
	220,52	28,779.03	4,801.19 29,473.30	250,20 694,27	42.75	40.53
		23,117.03	27,473.30	094.27	41.50	40.52
123,23	65.76	9,192.90	9,689.86	496.96	45.75	43.40
********	374.42	46,532.51	47,929.24	1,396.73	39.75	38.59
*******	4,478.64	461,637.15	477,992.30	16,355.15	33.14	32.01
67.37	176.90 217.08	25,244.15 28,299.70	26,919.53 29,712.49	1,675.38	47.25	44.31
07.57	217.00	20,299.70	29,712.49	1,412.79	42.50	40.48
38.25	53.72	6,868.74	7,178.45	309.71	41.50	39.71
	114.48	15,195.61	18,527.18	3,331.57	50.25	41.21
	7,805.47	1,003,967.91	1,062,044.58	58,076.67	42.25	39.94
369.74	272.85	35,665.49	36,027.39	361.90	41.00	40.59
********	79.96	6,371.58	9,268.80	2,897.22	36.00	24.75
5.90	42.94	5,980.04	6,015.35	35.31	43.50	43.24
	174.14	23,416.56	25,797.58	2,381.02	46.00	41.76
	254.99	33,220.92	32,847.66	373.26	40.00	40.45
	874.62	114,418.23	114,077.04	341.19	40.50	40.62
* * * * * * * * * * * * * * * * * * * *	173.82	21,671.45	23,233.43	1,561.98	41.50	38.71
	113.55	15,889.03	16,364.71	475.68	44.75	43.45
	112,31	13,395.84	13,745.56	349.72	38.00	37.04
2,314.49	5,548.18	662,415.72	674,504.74	12,089.02	37.75	37.07
* * * * * * * * * * * * * * * * * * * *	75.05 338.99	9,906.32 40,697.45	10,633.34 42,575.01	727.02 1,877.56	44.00 39.00	40.99 37.28
	000,77	10,077.10	12,070.01	2,077.50	32.00	07,20
• • • • • • • • • • • •	343.03	44,831.66	45,292.36	460.70	41.00	40.58
7.25	314.52	42,469.98	41,528.57	941.41	41.00	41.93
240.57	100.70	14,556.78	14,756.78	200.00	45.50	44.88
248.57	598.96 164.17	79,653,63 17,978.97	81,977.92 18,239.02	2,324.29	42.50 34.50	41.30 34.01
* * * * * * * * * * * * * * * * * * * *	104.17	11,910.91	10,239.02	200.03	34.30	01.01
* * * *	2,476.98	297,018.39	311,104.01	14,085.62	39.00	37.23
	229.75	30,590.39	31,444.69	854.30	42.50	41.34
800.51	150.56	17,453.00	20,001.11	2,548.11	41.25	35.99
18,234,28 39.30	1,819.61 79.77	208,162.19 11,245.32	240,257.97 12,008.51	32,095.78 763.19	41.00	35.52 43.78
37.30	19.11	11,240,02	12,000.01	, 00,12		
94.20	89.12	12,382.59	13,200.84	818.25	46.00	43.14
	69.74	9,122.17	9,374.96	252.79	41.75	40.62
	46.08	6,413.73	6,493.96	80.23	43.75	43.21
81.87	134.76	17,594.74	18,337.57	742.83	42.25 47.25	40.54 43.22
80.86	77,26	10,751.56	11,753.83	1,002.27	41.43	43,44

STATEMENT OF THE ALLOCATION

	Power and energy supplied during year (principal bases of cost allocation)		Cost o		
Municipality	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation (Note 2)	Provision for nuclear research (Note 3)
		megawatt-			
	kw	hours	\$	\$	\$
Deep River	2,786.6	14,967.8	97,347.72		277.81
Delaware	217.6	903.2	8,239.87	1,088.00	19.33
Delhi	2,055.4	10,191.0	74,676.17	10,277.00	197.37
Deseronto. Dorchester.	856.9	4,453.9	35,499.06		84.10
Dorenester	319.1	1,501.4	12,079.38	1,595.50	29.92
Drayton	321.5	1,285.5	11,971.47	1,607.50	28.14
Dresden	1,242.2	5,506.4	47,734.63	6,211.00	113.49
Drumbo	217.8	871.8	8,589.07	1,089.00	19.06
Dublin	204.0	812.3	7,267.68	1,020.00	17.82
Dundalk	481.7	2,079.6	20,364.18		43.52
Dundas	6,216.7	31,287.5	203,085.82	31,083.50	601.08
Dunnville	3,150.1	15,623.3	118,843.21	15,750.50	302.53
Durham	1,430.9	6,019,0	54,805.11		127.85
Dutton	345.4	1,584.0	15,174.72	1,727.00	32.03
East York Twp	32,741.0	180,962.5	1,093,329.32	163,705.00	3,309.40
Eganville	461,0	2,202,4	17,380.27		43.53
Elmira	3,230.2	14,908.8	117,574.29	16,151,00	300.35
Elmvale	523.2	2,470.4	20,649.45		49.14
Elmwood	166,3	569.0	6,558.50		13.70
Elora	712.2	3,300.6	29,026.44	3,561.00	66.34
Embro	337.8	1,510.4	12,769.38	1,689.00	30.97
Erieau	339.1	1,518.4	13,147.99	1,695.50	31.11
Erie Beach	51.4	183.8	1,962.48	257.00	4.30
Erin	492.5	2,314.8	19,574.39		46.17
Essex.	1,361.4	6,800.2	56,484.93	6,807.00	131.17
Etobicoke Twp,	94,658.0	548,410,1	3,235,456,91	473,290.00	9,791.88
Exeter	1,860.9	8,962.8	74,549.42	9,304.50	176.36
rergus	3,308.8	13,913.4	118,822.65	16,544.00	295.60
rinch	243.0	1,002.2	9,365.67		21.53
Flesherton	336,4	1,338.0	11,952.71		29.37
Fonthill.	1,026.4	4.007.3	. 24 017 20	F 422 00	
Forest Uill	1,020.4	4,987.2 6,674.4	36,817.32 48,147.94	5,132.00 5,622.00	97.66 117.73
orest Hill	12,032.2	67,376.7	401,274.16	60,161.00	1,223.95
rankford	599.2	2,758.6	20,878.41		55.65
Galt	21,951.5	105,158.6	699,301.99	109,757.50	2,075.22
Georgetown	6,281.7	33,925,1	222,716.11	31 408 50	627.80
Glencoe	509.7	2,420.8	20,637.22	31,408.50	627.89
oderich	4,775.1	23,836.9	178,642.87	23,875.50	48.00 459.97
Grand Bend.	677.8	3,003.2	26,793.26	3,389.00	61.91
Grand Valley.					

SYSTEM

				į		
primary power						rates on att basis
primary power					a know,	att basis
				-		
			Amounts			
Credit			billed			
resulting	Net revenue		for primary power	Balance		
from	from	Total cost	(municipalities	credited		
matured	direct	of	at interim	or		
sinking fund	customers	primary power	rates)	charged	Interim	Actual
		1				
\$	\$	\$	\$	\$	\$	\$
	865.28	96,760.25	98,227.36	1,467.11	35.25	34.72
14.49	67.57	9,265.14	9,355.37	90.23	43.00	42.59
* * * * * * * * * * * * * * * * * * * *	638.23	84,512.31	89,409.19	4,896.88	43.50	41.12
21.50	266.08	35,317.08	35,559.28	242.20	41.50	41.21
31.58	99.08	13,574.14	14,199.60	625.46	44.50	42.54
89.64	99.83	13,417.64	13,824.49	406.85	43.00	41.73
258.74	385.72	53,414.66	57,140.43	3,725.77	46.00	43.00
34.12	67.63	9,595.38	10,291.05	695.67	47.25	44.06
45.35	63.34	8,196.81	8,466.02	269.21	41.50	40.18
* * * * * * * * * * * * * * * * * * * *	149.58	20,258.12	21,675.03	1,416.91	45.00	42.06
4,943.69	1,930.38	227,896.33	228,464.04	567.71	36.75	36.66
334.90	978.15	133,583,19	147,266.00	13,682.81	46.75	42.41
	444.31	54,488.65	58,310.88	3,822.23	40.75	38.08
168.19	107.25	16,658.31	17,617.56	959.25	51.00	48.22
* * * * * * * * * * * * * * * * * * * *	10,166.56	1,250,177.16	1,252,343.26	2,166.10	38.25	38.18
	143.14	17,280.66	17,404.02	123.36	37.75	37.49
2,051.72	1,003.02	130,970.90	137,285.28	6,314.38	42.50	40.55
1,390.56	162.46	19,145.57	21,189.60	2,044.03	40.50	36.59
	51.64	6,520.56	6,611.08	90.52	39.75	39.21
334.71	221.15	32,097.92	32,584.68	486.76	45.75	45.07
60.32	104.89	14,324.14	14,777.29	453.15	43.75	42.41
	105.30	14,769.30	16,192.82	1,423.52	47.75	43.55
	15.96	2,207.82	2,301.65	93.83	44.75	42.92
• • • • • • • • • • •	152,93	19,467.63	20,069.03	601.40	40.75	39.53
978.69	422.73	62,021.68	60,924.50	1,097.18	44.75	45.56
379.33	29,392.68	3,688,766.78	3,833,646.99	144,880.21	40.50	38.97
251.11	577.84	83,201.33	86,068.56	2,867.23	46.25	44.71
219.25	1,027.43	134,415.57	138,967.50	4,551.93	42.00	40.62
* * * * * * * * * * * * * * * * * * * *	75.45	9,311.75	9,659.90	348.15	39.75	38.32
•••••	104.45	11,877.63	12,781.62	903,99	38.00	35.31
	318.71	41,728.27	43,879.67	2,151.40	42.75	40.65
176.16	349.15	53,362.36	57,341.85	3,979.49	51.00	47.46
*********	3,736.17	458,922.94	466,248.09	7,325.15	38.75	38.14
14.616.00	186.06	20,748.00	21,272.78	524.78	35.50	34.63
14,616.80	6,816.26	789,701.65	801,228.85	11,527.20	36.50	35.97
4,666.18	1,950.56	248,135.76	263,830.00	15,694.24	42.00	39.50
• • • • • • • • • • • • • • • • • • • •	158.27	23,075.45	24,208.76	1,133.31	47.50	45.28
695.28	1,482.74	200,800.32	231,593.57	30,793.25	48.50	42.05
5.76	210.46	30,027.95	34,567.81	4,539.86	51.00	44.30
********	130.47	17,045.72	18,698.90	1,653.18	44.50	40.57
-		1	1	,		

STATEMENT OF THE ALLOCATION

	supplied of (princip	Power and energy supplied during year (principal bases of cost allocation)		Cost o		
Municipality	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation (Note 2)	Provision for nuclear research (Note 3)	
		megawatt-				
	kw	hours	\$	S	\$	
Granton	106.0	441.8	4,032.51	530.00	9.43	
Gravenhurst	2,411.9	12,190.2	89,991.39		233.66	
Grimsby	2,407.7	12,967.7	90,677.65	12,038.50	240.35	
Guelph	32,381.8	162,662.1	1,029,871.81	161,909.00	3,128.20	
Hagersville	1,696.9	6,900.0	62,395.10	8,484.50	149.51	
Hamilton	294,518.1	1,849,882.2	10,109,031.86	1 217 560 50	21 741 20	
Hanover	3,571.7	14,912.8	120,854.98	1,217,560.50	31,741.32 318.14	
Harriston	1,201.4	5,788.6	45,277.07	6,007.00	113.88	
Harrow	1,225.2	5,701.1	47,872.52	6,126.00	114.33	
Hastings	402.5	1,886.0	14,975.02		37.68	
Uavalada						
Hawlesham	449.3	2,360.4	17,594.22		44.32	
Hawkesbury	2,645.1	13,791.7	87,176.17		260.01	
Hensall	729.7	3,467.7	28,712.57	3,648.50	68.74	
Highgate.	4,851.3 187.8	23,355.5 625.2	161,746.92 7,110.49	24,256.50	459.65	
	107.0	023,2	7,110.49	939.00	15.31	
Holstein	99.7	400.4	3,916.14		8.73	
Huntsville	2,383.5	13,424.9	94,446.23		243.15	
Ingersoll	5,269.2	25,100.0	188,984.05	26,346.00	496.87	
Iroquois	695.9	3,340.3	27,440.57		65.84	
Jarvis	307.5	1,478.4	12,138.75	1,537.50	29.12	
Kemptville	1,413.8	6,592.2	56,437.41		132.05	
Kincardine	1,896.3	9,802.5	78,722.00		185.65	
Kingston	36,328.0	200,691.9	1,192,287.13		3,671.11	
Kingsville	1,646.3	8,165.4	58,522.06	8,231.50	158.11	
Kirkfield	77.3	321.8	3,132.35		6.88	
Kitchener	60,586.4	324,222.5	1,805,711.07	302,932.00	6 020 44	
Lakefield	1,105.6	5,193.6	36,551.09	302,932.00	6,029.44 103.60	
Lambeth	746.6	3,361.2	27,783,80	3,733.00	68.67	
Lanark	258.4	1,201,4	10,096.98		24.11	
Lancaster	225.0	1,097.5	8,928.50		21.45	
Leamington	5,412.6	20 620 0	202 224 22	97.052.00	F0 F 4 F	
Lindsay.	7,088.6	28,630.2	202,224.20 274,024.20	27,063.00	535.67	
Listowel	2,785.2	40,651.0 12,900.0	99,310.05	13,926.00	729.58	
London	61,909.2	368,851.3	2,105,206.51	309,546.00	259.37 6,494.55	
London Twp	1,477.4	6,606.4	51,357.14	7,387.00	135.49	
Long Branch	6,241.8	32,017.2	214,115.43	31,209.00	608.87	
L'Orignal	310.4	1,385.0	12,287.43		28.44	
Lucan	513.7	2,364.4	20,693.01	2,568.50	47.71	
LucknowLynden	637.7	2,948.0	26,137.20	4 200 50	59.34	
AJ 11(1)	259.7	1,185.4	9,843.88	1,298.50	24.03	

SYSTEM

						l rates on
primary power					a kilow	att basis
		1		-		
			Amounts			
			billed			
Credit			for primary			
resulting	Net revenue		power	Balance		
from matured	from	Total cost	(municipalities	credited		
sinking fund	customers	of primary power	at interim rates)	Or absenced	T	
		primary power	rates)	charged	Interim	Actual
				1		
\$	\$	\$	s	\$	\$	
64.30	32.91	4,474.73	4,479.91	5.18	42.25	\$ 42.20
*********	748.93	89,476.12	91,653.46	2,177.34	38.00	37.10
	747.62	102,208.88	111,354.56	9,145.68	46.25	42.45
13,921.66	10,055.01	1,170,932.34	1,222,413.25	51,480.91	37.75	36.16
2,083.68	526.91	68,418.52	70,423.08	2,004.56	41.50	40.32
53,650.96	91,452.14	11,213,230.58	11,412,577.66	199,347.08	38.75	38.07
	1,109.07	120,064.05	126,796.84	6,732.79	35.50	33.62
174.43	373.05	50,850.47	51,959.83	1,109.36	43.25	42.33
327.13	380.44	53,405.28	54,215.86	810.58	44.25	43.59
• • • • • • • • • • • • • • • • • • • •	124.98	14,887.72	16,101.67	1,213.95	40.00	36.99
	139.52	17,499.02	18,869.20	1,370.18	42.00	38.95
**********	821.34	86,614.84	88,609.45	1,994.61	33.50	32.75
144.44	226.59	, 32,058.78	32,108.28	49.50	44.00	43.93
2,138.62	1,506.39	182,818.06	185,563.82	2,745.76	38.25	37.68
90.17	58.31	7,916.32	8,873.57	957.25	47.25	42.15
* * * * * * * * * * * * * * * * * * * *	30.96	3,893.91	4,162.84	268.93	41.75	39.06
***********	740.12	93,949.26	97,721.46	3,772.20	41.00	39.42
5,605.85	1,636.17	208,584.90	214,720.90	6,136.00	40.75	39.59
* * * * * * * * * * * * * * * * * * * *	216.09	27,290.32	31,141.13	3,850.81	44.75	39.22
*******	95.49	13,609.88	14,068.13	458.25	45.75	44.26
*******	439.01	56,130.45	57,258.92	1,128.47	40.50	39.70
* * * * * * * * * * * * * * * * * * * *	588,83	78,318.82	89,599.00	11,280.18	47.25	41.30
	11,280.37	1,184,677.87	1,235,150.58	50,472.71	34.00	32.61
1,057.77	511.20	65,342.70	67,499.67	2,156.97	41.00	39.69
***********	24.00	3,115.23	3,518.66	403.43	45.50	40.30
26,798.18	18,812.95	2,069,061.38	2,120,525.16	51,463.78	35.00	34.15
******	343.30	36,311.39	39,801.00	3,489.61	36.00	32.84
28.60	231.84	31,325.03	31,357.20	32.17	42.00	41.96
	80.24	10,040.85	10,465.55	424.70	40.50	38.86
* * * * * * * * * * * * * * * * * * * *	69.86	8,880.09	8,943.43	63.34	39.75	39,47
1,246.41	1,680.69	226,895.77	232,740.35	5,844.58	43.00	41.92
	2,201.11	272,552.67	274,684.87	2,132.20	38.75	38,45
563.27	864.85	112,067.30	114,889.85	2,822.55	41.25	40.24 37.93
53,504,79	19,223.71 458.75	2,348,518.56 58,420.88	2,398,980.87 58,727.33	50,462.31 306.45	38.75 39.75	39.54
						20.00
**********	1,938.17	243,995.13	251,231.12	7,235.99	40.25	39.09 39.37
205.24	96.39	12,219.48 22,944.47	12,182.54 24,141.55	36.94 1,197.08	39.25 47.00	44.67
205.24	159.51 198.01	25,998.53	29,331.91	3,333.38	46.00	40.77
143.77	80.64	10,942.00	11,167.83	225.83	43.00	42.13
2,0,7			,			

STATEMENT OF THE ALLOCATION

	Power and energy supplied during year (principal bases of cost allocation)		Cost		
Municipality	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation (Note 2)	Provision for nuclear research (Note 3)
		megawatt-			
	kw	hours	\$	\$	\$
Madoc	761.7	3,744.6	30,705.83		72.85
Magnetawan	69.4	307.2	2,874.11		6.34
Markdale	591.9	2,768.0	24,010.19		55.36
Markham	2,329.6	11,155.1	87,531.47	11,648.00	220.19
Marmora	649.3	3,221.6	27,487.48		62.37
Martintown	151.4	548,8	5,408.66		12.74
Maxville	409.5	1,633.9	17,212.92		35.80
Meaford	2,416,3	12,701.1	100,842.87		238.42
Merlin	260.1	1,178.4	10,017.39	1.300.50	23.98
Merrickville	384.3	1,942.8	14,740.59	1,500.50	37.23
Marritton	17.611.1	402.042.0			
Merritton	17,644.4 6,723.6	103,812.9	603,603.44	88,222.00	1,839.33
Mildmay	1	34,300.3	238,402.94	* * * * * * * * * * * * * * * * * * * *	654.20
Millbrook	480,3 381,8	1,987.8	17,945.61		42.62
Milton	4,132.7	1,769.6 20,718.5	15,711.13 153,924.57	20,663.50	35.57 398.87
Milverton	836.1	3,220.4	32,372.21	4,180.50	72.07
Minico	7,435.0	41,708.7	253,601.03	37,175.00	756.98
Mitchell	1,575.3	7,834.1	57,682.46	7,876.50	151.48
Morrisburg	183.5	742.0	6,681.31	917.50	16.13
Morrisburg	1,190.3	5,876.0	47,445.53	• • • • • • • • • • • • • • • • • • • •	114.07
Mount Brydges	307.9	1,371.6	11,553.11	1,539.50	28.18
Mount Forest	1,671.9	7,528.8	64,145.75		153.79
Napanee	3,212.5	15,297.7	123,681.96		302.88
Neustadt	245.8	969,3	8,845.16		21.39
Newboro	87.7	356.3	3,171.91		7.72
Newburgh	236.9	1,022.2	9,306.69		21.40
Newbury	97.9	427.0	3,913.50	489.50	8.88
Newcastle	798.6	3,761.0	28,226.04		74.92
New Hamburg	1,207.0	5,622.4	46,108.95	6,035.00	112.69
Newmarket	5,442.5	27,539.6	187,865.27	27,212.50	527.55
New Toronto	27,536.7	157,406.0	951,252.76	137,683.50	2,829.61
Niagara	1,566.5	8,603.7	58,785.10	7,832.50	157.86
Magara Falls	15,925.6	86,782.9	533,074.53	79,628.00	1,598.73
North York Twp	134,303.0	755,466.1	4,563,737.11	671,515.00	13,691.99
Norwich	894,9	4,319.5	35,674.36	4,474.50	84.89
Norwood	511.0	2,461.3	21,464.85		48.43
Oakville	8,724.5	45,800.7	294,523.34	43,622.50	860.36
Oil Springs	224.0	1,249.0	9,399.15	1,120,00	22.74
Omemee	370.8	1,748.0	15,029.64		34.80
Orangeville	2,829.8	13,650.5	114,314.25		268.35

SYSTEM

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					Annua	l rates on
primary power						vatt basis
,			Amounts			
G 11:			billed			
Credit	NT .		for primary			
resulting from	Net revenue	(T) 1 1	power	Balance		
matured	from	Total cost	(municipalities	credited		
sinking fund	customers	of primary power	at interim	or		
omanig rand	Customers	primary power	rates)	charged	Interim	Actual
					1	
\$	\$ 226.52	\$	\$	\$	\$	\$
• • • • • • • • • • • • • • • • • • • •	236.52 21.55	30,542.16	31,802.72	1,260.56	41.75	40.10
	183.80	2,858.90 23,881.75	3,538.58	679.68	51.00	41.19
	723.38	98,676.28	24,565.59	683.84	41.50	40.35
	201.62	27,348.23	102,502.05 29,868.18	3,825.77	44.00	42.36
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	201,02	27,340.23	49,808.18	2,519.95	46.00	42.12
	47.01	5,374.39	5,562.12	187.73	36.75	35.50
	127.15	17,121.57	17,507.57	386.00	42.75	41.81
	750,30	100,330.99	106,316.45	5,985.46	44.00	41.52
	80.77	11,261.10	11,899.20	638.10	45.75	43.30
• • • • • • • • • • •	119,33	14,658.49	14,989.02	330,53	39.00	38.14
*******	5,478.85	688,185.92	683,719.53	4,466.39	38.75	39.00
13,623.19	2,087.78	223,346.17	240,366.93	17,020.76	35.75	33.22
	149.14	17,839.09	18,972.86	1,133.77	39,50	37.14
• • • • • • • • • • • • • • • • • • • •	118.56	15,628.14	16,416.70	788.56	43.00	40.93
3,564.16	1,283,26	170,139.52	174,607.28	4,467.76	42.25	41.17
460.58	259.62	35,904.58	36,998.91	1,094.33	44.25	42.94
1,159.79	2,308.68	288,064.54	284,389.08	3,675.46	38.25	38.74
1,796.96	489.15	63,424.33	65,373.92	1,949.59	41.50	40.26
48.27	56.98	7,509.69	7,705.60	195.91	42.00	40.92
* * * * * * * * * * * * * * * * * * * *	369.61	47,189.99	52,371.00	5,181.01	44.00	39.65
45.83	95.61	12,979.35	13,164.53	185.18	42.75	42.15
	519.15	63,780.39	66,038.08	2,257.69	39.50	38.15
	997.53	122,987.31	132,517.36	9,530.05	41.25	38.28
• • • • • • • • • • • • • • • • • • • •	76.33	8,790.22	9,216.25	426.03	37.50	35.76
* * * * * * . * * * * * * * * * * * * *	27.24	3,152.39	3,201.05	48.66	36.50	35.95
	73.56	9,254.53	9,535.22	280.69	40.25	39.07
*******	30.40	4,381.48	4,919.92	538.44	50.25	44.75
	247.98	28,052.98	28,551.14	498.16	35.75	35,13
2,008.24	374.79	49,873.61	49,788.41	85.20	41.25	41,32
• • • • • • • • • • • • • • • • • • • •	1,689.97	213,915.35	214,980.07	1,064.72	39.50	39,30
4,623.52	8,550.55	1,078,591.80	1,087,699.33	9,107.53	39.50	39,16
70.01	486.42	66,219.03	65,009.06	1,209.97	41.50	42.27
4,683.31	4,945.13	604,672.82	617,116.34	12,443.52	38.75	37.97
3.50	41,703.02	5,207,237.58	5,237,817.69	30,580.11	39.00	38.78
1,686.35	277.88	38,269.52	38,478.55	209.03	43.00	42.77
* * * * * *	158.67	21,354.61	23,123.86	1,769.25	45.25	41.79
	2,709.08	336,297.12	342,438.26	6,141.14	39.25	38.55
162.00	69.56	10,310.33	11,423.60	1,113.27	51.00	46.03
	115.14	14,949.30	15,575.35	626.05	42.00	40.32
• • • • • • • • • • • • • • • • • • • •	878.69	113,703.91	126,633.92	12,930.01	44.75	40.18

STATEMENT OF THE ALLOCATION

	supplied d (princip	nd energy uring year al bases llocation)	Cost		
Municipality	Average of monthly peak loads	Energy	Power purchased, operating costs, and net fixed charges (Note 1)	Frequency standardi- zation (Note 2)	Provision for nuclear research (Note 3)
		megawatt-			
	kw	hours	\$	\$	\$
Orillia	4,486.9	16,289.9	165,137.29		377.95
Orono	435.6	1,968.6	16,310.04		40.13
Oshawa	57,762.6	308,757.7	1,872,711.71		5,745.28
Ottawa	139,947.1	741,507.8	4,551,692.75		13,861.48
Otterville	343.2	1,471.2	12,367.45	1,716.00	30.91
Owen Sound	10,980.2	54,962.9	379,226.47		1,058.99
Paisley	408.9	1,955.6	15,438.07		38.63
Palmerston	1,016.1	5,013.8	36,295.56	5,080.50	97.36
Paris	3,337.2	15,668.7	109,727.46	16,686.00	312.66
Parkhill	725.6	3,323.2	28,968.11	3,628.00	67.24
Parry Sound	1,650.6	8,586.2	65,549,71		162.07
Penetanguishene	2,423.5	12,776.2	89,729,64		239.47
Perth	3,516.3	16,856.1	132,079,83		332.52
Peterborough	35,501.3	199,189.1	1,199,984.92		3,614.78
Petrolia	1,311.3	6,862.5	54,201.71	6,556.50	129.12
Petrolia Waterworks	155.6	724.4	5,956.35	778.00	14.52
Pickering	728.3	3,705.4	27,182.86		70.78
Picton	3,414.8	17,150.5	127,333.85		329.86
Plattsville	614.9	2,608.0	22,460.83	3,074.50	55.13
Point Edward	4,067.5	17,235,7	131,240.69	20,337.50	364.55
Port Burwell	209.8	932.0	8,279.13	1,049.00	19.19
Port Colborne	5,425.6	29,523.2	193,300.09	27,128.00	544.28
Port Credit	9,233.5	64,340.3	354,721.58	46,167.50	1,051.47
Port Dalhousie	1,391.7	8,361.6	53,163.06	6,958.50	146.62
Port Dover	1,765.5	9,579.0	64,648.61	8,827.50	176.87
Port Elgin	1,087.2	5,307.2	45,607.07		103.66
Port Hope	7,191.8	39,310.3	273,885.32		723.03
Port McNicoll	1,128.9	3,224.0	37,610.53		87.33
Port Perry	1,118.3	5,424.0	45,293,45		106.31
Port Rowan	231.5	1,073.8	9,034,16	1,157.50	21.58
Port Stanley	1,009.0	5,112.8	40,812.80	5,045.00	97.86
Prescott	3,293.1	15,673.3	123,926.87		310.41
Preston	8,469.6	41,218.4	281,417.33	42,348.00	806.42
Priceville	42.8	177.8	1,846.42	42,546.00	3.81
Princeton	236.6	993.8	8,986.27	1,183.00	21.13
Queenston	285.4	1,560.5	10,391.79	1,427.00	28.70
Renfrew	3,228.9	14,188.8	177,530.37		293.89
Richmond	452.0	2,102.0	15,616.03		42.17
Richmond Hill	7,395.7	36,939.6	278,484.81	36,978.50	712.58
Ridgetown	1,205.3	5,403.1	47,769.77	6,026.50	110.65
Ripley	270.6	1,209.6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,020.00	110,00

SYSTEM

primary power					Annual	rates on att basis
primary power					a knowe	itt basis
				-		
			Amounts billed			
Credit			for primary			
resulting	Net revenue		power	Balance		
from	from	Total cost	(municipalities	credited		
matured sinking fund	direct customers	of	at interim	or		
- Siliking Tunu	customers	primary power	rates)	charged	Interim	Actual
\$	\$	\$	\$	\$	\$	\$
	1,393.25	164,121.99	167,136.72	3,014.73	37.25	36.58
	135.26	16,214.91	16,552.49	337.58	38.00	37.22
	17,936.13	1,860,520.86	1,978,370.49	117,849.63	34.25	32.21
40.45	43,455.60	4,522,058.18	4,478,308.00	43,750.18	32.00	32.31
39.30	106.57	13,968.49	14,843.40	874.91	43.25	40.70
	3,409.50	376,875.96	395,285,40	18,409.44	36.00	34.32
	126.97	15,349.73	15,946.17	596.44	39.00	37.54
163.39	315.52	40,994.51	42,420.78	1,426.27	41.75	40.35
967.32	1,036.25	124,722.55	129,315.22	4,592.67	38.75	37.37
	225.31	32,438.04	33,375.68	937.64	46.00	44.71
	512.53	65,199.25	70,975.46	5,776.21	43.00	39.50
6,758.88	752.53	82,457.70	87,244.80	4,787.10	36.00	34.02
	1,091.86	131,320.49	132,740.96	1,420.47	37.75	37.35
	11,023.67	1,192,576.03	1,233,671.63	41,095.60	34.75	33.59
717.74	407.18	59,762.41	62,284.77	2,522.36	47.50	45.58
	48.31	6,700.56	7,390.23	689.67	47.50	43.07
	226.15	27,027.49	28,403.40	1,375.91	39.00	37.11
	1,060.35	126,603.36	128,908.39	2,305.03	37.75	37.07
97.08	190.93	25,302.45	26,595.87	1,293.42	43.25	41.15
180.96	1,263.02	150,498.76	161,683.46	11,184.70	39.75	37.00
2.64	65.15	9,279.53	10,330.61	1,051.08	49.25	44.24
	1,684.73	219,287.64	222,448.25	3,160.61	41.00	40.42
389,27	2,867.13	398,684.15	392,425.52	6,258.63	42,50	43.18
* * * * * * * * * * * * * * * * * * * *	432.14	59,836.04	59,146.90	689.14	42.50	43.00
	548.21	73,104.77	70,621.66	2,483.11	40.00	41.41
* * * * * * * * * * * * * * * * * * * *	337.59	45,373.14	49,196.17	3,823.03	45.25	41.73
	2,233.16	272,375.19	276,884.95	4,509.76	38.50	37.87
44.15	350.54	37,303.17	38,948.50	1,645.33	34.50	33.04
	. 347.25	45,052.51	46,969.65	1,917.14	42.00	40.29
*******	71.88	10,141.36	11,229.77	1,088.41	48.50	43.80
1,961.02	313,31	43,681.33	45,656.11	1,974.78	45.25	43.29
	1,022.56	123,214.72	125,138.73	1,924.01	38.00	37.42
6,731.62	2,629.93	315,210.20	311,259.33	3,950.87	36.75	37.22
	13.29	1,836.94	1,927.14	90.20	45.00	42.92
21.21	73.47	10,095.72	10,648.89	553.17	45.00	42.66
	88.63	11,758.86	11,700.73	58.13	41.00	41.20
	1,002.62	116,821.64	116,240.70	580.94	36.00	36.18
	140.35	15,517.85	15,820.00	302.15	35.00	34.33
047.00	2,296.47	313,879.42	319,862.95	5,983.53	43.25	42.44
217.00	374.27	53,315.65	58,154.52	4,838.87	48.25 45.25	44.24 40.58
* * * * * * * * * * * * * * * * * * * *	84.02	10,980.50	12,244.65	1,264.15	43.23	40.50

STATEMENT OF THE ALLOCATION

	supplied of (princip	nd energy luring year oal bases llocation)	Cost		
Municipality	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation (Note 2)	Provision for nuclear research (Note 3)
Riverside. Rockland. Rockwood. Rodney. Rosseau.	kw 5,217.5 847.0 373.6 401.8 91.9	megawatt- hours 25,949.8 3,928.3 1,769.6 1,844.0 366.0	\$ 189,235.00 29,538.83 15,676.60 15,702.63 3,668.56	\$ 26,087.50 1,868.00 2,009.00	\$ 501.73 78.93 35.15 37.27 8.03
Russell. St. Catharines St. Clair Beach St. George. St. Jacobs.	253.4 41,496.3 521.6 425.8 434.9	1,154.8 209,440.8 2,456.0 2,003.2 1,754.9	8,830.71 1,340,579.38 18,980.04 15,930.84 17,519.66	207,481.50 2,608.00 2,129.00 2,174.50	23.44 4,017.53 48.93 39.93 38.19
St. Mary's. St. Thomas. Sandwich East Twp. Sandwich West Twp. Sarnia.	10,209.5 13,335.2 5,419.1 9,624.7 109,129.4	66,929.8 75,279.2 28,348.6 48,266.8 842,417.5	360,264.12 445,745.17 195,746.65 342,953.90 4,043,759.92	51,047.50 66,676.00 27,095.50 48,123.50 545,647.00	1,125.21 1,361.88 533.51 929.07 13,155.29
Scarborough Twp. Seaforth. Shelburne Simcoe. Smith's Falls.	109,917.6 1,527.3 755.2 6,798.6 6,619.1	587,137.5 7,011.0 3,450.0 35,892.8 31,671.0	3,682,663.35 48,620.55 31,515.35 228,084.58 217,156.00	549,588.00 7,636.50 	10,929.22 141.67 69.91 672.24 625.41
Smithville Southampton Springfield Stamford Twp. Stayner	519.3 1,011.4 207.8 14,988.3 864.3	2,174.1 5,255.6 964.0 80,109.7 4,039.2	19,718.79 43,359.00 7,368.04 500,220.51 35,401.33	2,596.50 1,039.00 74,941.50	46.31 99.26 19.36 1,490.72 80.81
Stirling	768.0 3,098.1 1,645.6 14,428.4 3,228.3	3,525.8 15,886.7 7,612.0 74,282.8 16,186.6	26,520.50 111,644.07 63,665.12 466,281.82 105,279.38	15,490.50 8,228.00 72,142.00 16,141.50	71.24 302.16 153.16 1,409.87 311.60
Streetsville Sunderland Sundridge Sutton Swansea	2,606.2 369.4 277.0 902.3 5,391.8	13,028.1 1,594.0 1,378.1 4,463.2 31,894.4	92,223.56 14,883.83 11,535.82 35,850.57 186,943.95	13,031.00 4,511.50 26,959.00	251.21 33.36 26.64 86.55 563.58
Tara. Tavistock. Tecumseh Teeswater Thamesford.	354.8 735.2 1,191.3 599.6 576.8	1,551.6 3,591.2 5,708.5 2,763.6 2,804.9	13,735.98 28,122.53 43,254.70 24,795.23 23,897.20	3,676.00 5,956.50 	32.23 70.12 112.64 55.72 54.90

SYSTEM

					Annual	rates on
primary power						att basis
			Amounts			
Credit			billed			
resulting	Net revenue		for primary	1		
from	from	Total cost	power	Balance		
matured	direct	of	(municipalities at interim	credited		
sinking fund	customers	primary power	rates)	or charged	Interim	
			1	charged	menn	Actual
\$	4					
	\$ 1,620.11	\$ 214,204.12	\$ 215 222 56	\$	\$	\$
	263.01	29,354.75	215,222.56	1,018.44	41.25	41.05
688.56	116.01	16,775.18	30,279.06 17,280.15	924.31 504.97	35.75	34.66
80.67	124.76	17,543.47	20,490.56	2,947.09	46.25 51.00	44.90
* * * * * * * * * * * * * * * * * * * *	28.54	3,648.05	3,882.77	234.72	42.25	43.67 39.70
• • • • • • • • • • • •	78.69	8,775.46	8,996.88	221.42	35.50	34.63
*******	12,885.21	1,539,193.20	1,556,110.33	16,917.13	37.50	37.09
124.46	161.96	21,475.01	21,383.89	91.12	41.00	41.17
134.46 103.41	132.22 135.04	17,833.09	18,521.96	688.87	43.50	41,88
	133,04	19,493.90	19,351.58	142.32	44.50	44,83
4,462.33	3,170.20	404,804.30	423,694.25	18,889.95	41.50	39,65
14,866.52	4,140.77	494,775.76	513,404.56	18,628.80	38.50	37.10
* * * * * * * * * * * * * * * * * * * *	1,682.70	221,692.96	230,312.83	8,619.87	42.50	40.91
3,149.99	2,988.61	389,017.86	409,049.05	20,031.19	42.50	40.42
3,149.99	33,886.26	4,565,525.96	4,474,307.13	91,218.83	41.00	41.87
• • • • • • • • • •	34,131.00	4,209,049.57	4,314,266.12	105,216.55	39.25	38.29
4,216.26	474.25	51,708.21	52,311.18	602.97	34.25	33.86
255 42	234.50	31,350.76	35,118.36	3,767.60	46.50	41.51
255.43	2,111.06 2,055.33	260,383.33	261,745.78	1,362.45	38.50	38.30
	2,055.55	215,726.08	221,738.17	6,012.09	33.50	32.59
	161.25	22,200.35	23,885.89	1,685.54	46.00	42.75
	314.05	43,144.21	46,018.70	2,874.49	45.50	42.66
42.76	64.52	8,319.12	8,937.18	618.06	43.00	40.03
611.21 1,578.81	4,654.08 268.38	571,387.44 33,634.95	569,555.08	1,832,36	38.00	38.12
2,070,01	200,38	33,034,93	36,084.53	2,449.58	41.75	38.92
	238.48	26,353.26	26,687.99	334.73	34.75	34.31
	962.01	126,474.72	129,346.04	2,871.32	41.75	40.82
	510.99	71,535.29	72,819.66	1,284.37	44.25	43.47
11,211.76	4,480.23	524,141.70	541,064.39	16,922.69	37.50	36.33
470.03	1,002.43	120,260.02	123,480.56	3,220.54	38.25	37.25
*******	809.27	104,696.50	109,459.35	4,762.85	42.00	40.17
	114.70	14,802.49	16,251.76	1,449.27	44.00	40.07
	86.02 280.18	11,476.44 40,168.44	14,128.73	2,652.29	51.00	41.43
	1,674.23	212,792.30	43,311.60 214,322.08	3,143.16 1,529.78	48.00 39.75	44.52 39.47
• • • • • • • • • •	110.17	13,658.04	15,345,10	1,687.06	43.25	38,50
454.00	228.29	31,186.36	31,428.72	242.36	42.75	42.42
	369.92	48,953.92	50,929.15	1,975.23	42.75	41.09
,	186.19	24,664.76	26,980.14	2,315.38	45.00	41.14
135.85	179,10	26,521.15	27,395.62	874.47	47.50	45.98

STATEMENT OF THE ALLOCATION

	supplied d (princip	nd energy uring year al bases llocation)	Cost o			
Municipality	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation . (Note 2)	Provision for nuclear research (Note 3)	
		megawatt-				
	kw	hours	\$	\$	\$	
Thamesville	621.4	2,571.6	24,928.10	3,107.00	55.15	
Thedford	366.8	1,773.2	14,843.90	1,834.00	34.82	
Thornbury	590.7	2,821.6	24,182,77		55.77	
Thorndale	214.2	876.2	8,098.30	1,071.00	18.92	
Thornton	108.1	434.6	3,964.05		9.48	
Thorold	10,415.7	66,945.1	365,016.63	52,078.50	1,136.06	
Filbury	1,030.1	5,025.9	42,107.97	5,150.50	98.19	
Tillsonburg	4,384.1	20,652.8	138,926.31	21,920.50	411.36	
Toronto	552,485.8	3,275,425.4	18,556,102.07	2,762,429.00	57,813.85	
Toronto Twp	44,891.2	297,699.1	1,633,645.79	224,456.00	4,977.84	
Tottenham	354.5	1,746.4	14,720.97		33.94	
Trafalgar Twp	17,822.0	107,283.8	647,798.39	89,110.00	1,879.39	
Trenton	14,942.3	86,225.0	495,523.43		1,542.64	
Tweed	951.6	4,421.7	34,049.37		88.75	
Uxbridge	1,383.0	6,988.8	57,377.71	• • • • • • • • • • • •	133.97	
Vankleek Hill	493.0	2,248.1	19,554.45		45.59	
Victoria Harbour	299.8	1,408.0	12,358.15		28.09	
Walkerton	2,489.0	10,320.8	83,285.30		221.06	
Wallaceburg	7,950.1	44,111.1	270,648.99	39,750.50	805.09	
Wardsville	155.4	730.8	6,250.27	777.00	14.57	
Warkworth	242.5	993.1	8,730.97		21.43	
Wasaga Beach	642.0	2,374.4	25,475.17		54.47	
Waterdown	930.2	4,557.6	32,530.28	4,651.00	88.83	
Waterford	924.6	3,939.7	33,171.54	4,623.00	83.06	
Waterloo	14,317.7	75,084.5	423,999.23	71,588.50	1,411.24	
Watford	1,080.2	4,825.2	42,705.05	5,401.00	99.01	
Waubaushene	281.6	1,247.2	11,413.88		25.72	
Welland	13,129.2	68,055.9	433,030.24	65,646.00	1,287.02	
Wellesley	376.1	1,544.0	13,923.32	1,880.50	33.20	
Wellington	522.8	2,402.4	21,521.16		48.51	
West Lorne	923.3	3,682.5	35,812.35	4,616.50	80.70	
Weston	8,148.4	44,917.5	279,033.58	40,742.00	822.57	
westport	336.1	1,547.2	12,587.28		31.22	
Wheatley	777.5	3,291.2	30,553.55	3,887.50	69.66	
Whitby	9,800.5	52,401.1	325,359.77		974.92	
Wiarton	1,134.6	5,940.0	48,173.26		111.74	
Williamsburg	199.0	877.6	8,717.34		18.14	
Winchester	1,005.4	5,218.9	41,062.23		98.63	
Windermere	113.9	489.6	4,388.05		10.27	
Windsor	75,328.4	383,462.2	2,445,052.62	376,642.00	7,322.01	

SYSTEM

primary come						al rates on
primary power					a kilo	watt basis
		1	-			
			Amounts			
Condit			billed			
Credit resulting	Net revenue		for primary			
from	from	Total cost	power	Balance		
matured	direct	of	(municipalities at interim	credited		
sinking fund	customers	primary power	rates)	or charged	Interim	A - 1 1
					Interm	Actual
\$	\$	\$	\$	\$	\$	\$
81.34	192.96	27,815.95	28,430.59	614.64	45.75	44.76
• • • • • • • • • • • • • • • • • • • •	113.90	16,598.82	17,971.16	1,372.34	49.00	45.26
98.42	183.42	24,055.12	25,695.81	1,640.69	43.50	40.72
13.58	66.51 33.57	9,023.29	9,101.37	78.08	42.50	42.14
10.50	33.57	3,926.38	4,053.15	126.77	37.50	36.32
	3,234.22	414,996.97	414,022.75	974.22	39.75	39.84
138.92	319.86	46,897.88	49,188.05	. 2,290.17	47.75	45.53
5,936.24	1,361.32	153,960.61	161,116.91	7,156.30	36.75	35.12
215,393.75 1,095.54	171,554.84	20,989,396.33	21,132,583.13	143,186.80	38.25	37.99
1,095.54	13,939,37	1,848,044.72	1,840,539.54	7,505.18	41.00	41.17
54.51	110.08	14,590.32	15,422.21	831.89	43.50	41.16
	5,533.99	733,253.79	748,523.65	15,269.86	42.00	41.14
• • • • • • • • • • • • • • • • • • • •	4,639.80	492,426.27	478,152.54	14,273.73	, 32.00	32.96
• • • • • • • • • • • • •	295.48	33,842.64	34,734.32	891.68	36.50	35.56
* * * * * * * * * * * * * * * * * * * *	429,44	57,082.24	58,430.72	1,348.48	42.25	41.27
	153.08	19,446.96	19,473.51	26.55	39.50	39.45
62.91	93.09	12,230.24	12,892.84	662.60	43.00	40.79
1.061.42	772.87	82,733.49	93,957.87	11,224.38	37.75	33.24
1,061.42	2,468.62	307,674.54	319,991.85	12,317.31	40.25	38.70
* * * * * * * * * * * * * * * * * * * *	48.26	6,993.58	7,809.27	815,69	50.25	45.00
	75.30	8,677.10	9,580.39	903.29	39.50	35.78
	199.35	25,330.29	26,965.05	1,634.76	42.00	39.46
883.77	288.84	36,097.50	37,905.64	1,808.14	40.75	38.81
207.16 5,634.45	287.10 4,445.86	37,383.34	39,755.66	2,372.32	43.00	40.43
3,007.73	7,775.00	486,918.66	497,540.37	10,621.71	34.75	34.01
85.85	335.42	47,783.79	48,337.08	553.29	44.75	44.24
36.61	87.44	11,315.55	11,543.55	228.00	41.00	40.18
5,614.83	4,076.81	490,271.62	505,472.29	15,200.67	38.50	37.34
195,45	116.78	15,524.85	15,797.25	272.40	42.00	41.28
**********	162.34	21,407.33	21,434.46	27,13	41.00	40.95
48.95	286.69	40,173.91	46,855.79	6,681.88	50.75	43.51
4,843.39	2,530.20	313,224.56	321,860.16	8,635.60	39.50	38.44
*******	104.37	12,514.13	12,688.10	173.97	37.75	37.23
*******	241.43	34,269.28	35,960.13	1,690.85	46.25 ·	44.08
********	3,043.19	323,291.50	338,116.39	14,824.89	34.50	32.99
******	352.31	47,932.69	50,491.21	2,558.52	44.50	42.23
**********	61.79	8,673.69	9,153.62	479.93	46.00	43.59
*********	312.17	40,848.69	42,477.09	1,628.40	42.25	40.63
7,330.74	23,390.56	4,362.95	4,471.54	108.59	39.25	38.31
1,330.74	23,390.30	2,798,295.33	2,918,976.15	120,680.82	38.75	37.15

STATEMENT OF THE ALLOCATION

for the Year

	Power and energy supplied during year (principal bases of cost allocation)		. Cost of			
M unicipality	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation (Note 2)	Provision for nuclear research (Note 3)	
		megawatt-				
	kw	hours	\$	\$	\$	
Wingham	1,919.6	9,808.0	74,630.24		186.91	
Woodbridge	1,788.8	8,903.7	66,273.16	8,944.00	172.08	
Woodstock	16,514.2	92,677.0	549,547.53	82,571.00	1,681.67	
Woodville	189.7	806.3	7,895.43		17.02	
Wyoming	324.6	1,415.0	12,934.54	1,623.00	29.45	
York Twp	56,019.0	327,265,8	1,877,094.00	280,095.00	5,818,98	
Zurich	341.6	1,452.4	13,572.82	1,708.00	30.66	
Total—Municipalities	2,820,936.4	15,980,829,3	96,255,332,37	11,219,286.50	288,591,91	
Rural Power District	450,785.8	2,310,451.1	17,500,852.82	1,325,599.50	43,956.47	
Companies	582,996.3	4,510,205.7	22,398,542.91	588,801.50	72,418.91	
Local distribution systems	1,089.0	4,616.8	97,432.86		97.62	
Secondary energy:						
60-cycle export		1,735,642.0	221,855.00	2,844,626.22		
Other (Note 1)		1,458,019.9				
GRAND TOTAL	3,855,807.5	25,999,764.8	136,474,015.96	15,978,313.72	405,064.91	

Notes on Summary of the Allocation of the Cost of Primary Power

SOUTHERN ONTARIO SYSTEM

1. The total of \$136,474,015 shown under the heading "Power purchased, operating costs, and fixed charges" includes the following items of cost shown in the Statement of Operations:

Cost of power purchased\$	12.936,538
Operation, maintenance and administrative expenses	51,675,568
Interest.	53,778,810
Depreciation	13,035,967
Sinking fund provision	14,921,821
Interchange of power with Northern Ontario Properties (1,518,561	
megawatt-hours)	5,028,044
Sale of secondary energy, other than 60-cycle export	4,846,645

\$136,474,015

The method used in 1958 of allocating the cost of power supplied to each customer was followed in 1959, except for minor refinements and variations including an assessment of 5 cents per kilowatt (\$141,047) against all cost-contract municipalities. This sum, together with interest on the existing maximum cost reserve (\$18,441), was used to allow cost assistance to those municipalities with excessive charges for low-voltage distribution.

SYSTEM

OF THE COST OF PRIMARY POWER Ended December 31, 1959

primary power					Annual rates on a kilowatt basis		
Credit resulting from matured sinking fund	Sale of 60-cycle secondary export energy (Note 4)	Net revenue from direct customers	Total cost of primary power	Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Interim	Actual
\$	s	\$					
Ф		596.05	\$ 74,221.10	\$	\$	\$	\$
240,46		555,44	74,221.10	81,583.71	7,362.61	42.50	38.66
6,429.35		5,127.89	622,242,96	76,917.68 627,538.66	2,324.34	43.00	41.70
		58.90	7,853,55	8,962.53	5,295.70 1,108,98	38.00 47.25	37.68
46.69		100.79	14,439.51	14,689.29	249.78	45.25	41.40 44.48
		17,394.72	2,145,613.26	2,156,731.52	11.118.26	38.50	38.30
95.69		106.07	15,109.72	15,799.39	689.67	46.25	44.23
589,547.16		875,941.61	106,297,722.01	108,316,447.47	2,018,725.46		
• • • • • • • • • • • •		139,975.52	18,730,433.27	18,730,433.27			
******		1,010,298.55	24,070,061.87	24,070,061.87			
*******		5,618.58	103,149.06	103,149.06			
	3,066,481.22						
589,547,16	3,066,481.22		149,201,366.21	151,220,091.67	2,018,725.46		

2. Frequency standardization costs are shown in the Statement of Operations as follows:

Interest Portion of cost written off	 	7,823,293 8,155,021
		\$ 15,978,314

This represents a charge to all customers in the Niagara Division (except those which will not be supplied at 60 cycles) at the rate of \$5 per kilowatt on the average monthly peak load supplied amounting to \$13,133,688 plus an amount equal to the net revenue on the export of 60-cycle secondary energy amounting to \$2,844,626.

- 3. The provision of \$405,065 for nuclear research was charged to all customers within the system on the basis of 50 per cent on the quantity of energy supplied and 50 per cent on average monthly peak loads. It represents the Southern Ontario System's share of a total provision of \$500,000 charged proportionally on the basis of average monthly peak loads in the Southern Ontario System and the Northern Ontario Properties.
- 4. In 1959, proceeds of sales of 60-cycle secondary export energy were deducted from the cost of power, whereas these proceeds previously were included in amounts billed to companies. This change does not affect customers' costs because an amount equal to the net revenue from these sales (\$2,844,626 in 1959) has, as in prior years, been appropriated for frequency standardization.

SOUTHERN ONTARIO SYSTEM

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1959

		40 40 2	ccciiibei (,, ,,,,,			
	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed						
Municipality		Net provision and interest	Sinking fund equity acquired		Matured portion of	Reduction made in cost of power from matured sinking fund	
	Balance Jan. 1, 1959	credited during year	through annexation	Balance Dec. 31, 1959	sinking fund Jan. 1, 1959	Interest	Provision
	\$						
Acton	336,939.25	\$ 20.144.25	\$	\$	\$	\$	\$
Ailsa Craig	49,857.70	29,144.35		366,083.60	30,337.13	1,213.49	319.45
Ajax	51,332.22	3,178.80 24,173,22		53,036.50 75,505.44	3,258.31	130.33	34.31
Alexandria	121,440.03	12,529.48		133,969.51			
Alfred	4,412.82	1,785.90		6,198.72			
	-,	1,700.50		0,190.72	• • • • • • • • • • • • • • • • • • • •		
Alliston	117,756.84	12,379.92		130,136,76	3,413.11	136.52	35.94
Almonte	42,886.95	7,610.12		50,497.07			33.74
Alvinston	48,924.21	3,015.98		51,940.19			
Amherstburg	263,501.59	23,517.22		287,018.81	33,584.05	1,343.36	353,64
Ancaster Twp	103,094.58	13,183.01		116,277.59			
Apple Hill	11,668.49	875.38		12,543.87			
Arkona	27,164.26	2,420.26		29,584.52			
Arnprior	170,789.78	24,223.69		195,013.47			
Arthur	71,601.51	5,902.17		77,503.68			
Athens	29,303.71	2,810.86		32,114.57			
Autoro	420.025.00						
Avonmore	138,937.89	24,607.26		163,545.15			
Avonmore	227 400 24	180.31	3,576.42	3,756.73			
Ayr	237,408.34	26,185.24		263,593.58	4,761.63	190.47	50.14
Baden	62,820.11 108,014.16	5,472.91		68,293.02	1,524.22	60.97	16.05
Budein	100,014.10	6,298.20		114,312.36	29,499.53	1,179.98	310.63
Bancroft	21,590,66	6,928.74		20 510 40			
Barrie	808,747.68	89,324.52	-7,560,56	28,519,40 905,632.76	125,143.40	E 005 74	1 217 76
Barry's Bay	8,708.69	2,043.13		10,751.82		5,005.74	1,317.76
Bath	14,369.01	1,871,49		16,240.50			
Beachville	169,810.82	17,026.03		186,836.85	35,976,26	1,439.05	378.83
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		100,000,00	00,770.20	1,107.00	370,03
Beamsville	70,325.57	8,950.96	11.58	79,288.11			
Beaverton	82,894.69	8,204.31		91,099.00			
Beeton	52,483.99	3,951.37		56,435.36	3,232.67	129.31	34.04
Belle River	54,070.99	4,981.74		59,052.73			
Belleville	1,061,384.21	128,731.20		1,190,115.41			
Diambat							
Blenheim	151,430.28	11,751.69		163,181.97	4,229.82	169.19	44.54
Bloomfield	32,010.35	2,889.78		34,900.13			
Blyth	47,479.94	4,667.04		52,146.98			
Bobcaygeon	21,563.42	3,912.45		25,475.87			
Bolton	69,804.31	7,161.60		76,965.91	2,851.84	114.07	30.03
Bothwell	57 260 24	2 722 00		64.004.00	2	4.0.	
Bowmanville	57,269.21 401,163.13	3,732.08 40,623.24		61,001.29	3,616.33	144.65	38.08
Bracebridge	1,662,59	198.05		441,786.37			
Bradford	92,024.34	10,635.39		1,860.64	1,022.79	40.01	10.77
Braeside	14,829.45	4,288.91		102,659.73 19,118.36		40.91	10.77
	2,027,10	1,200,71		19,118.30			
Name and Address of the Control of t							

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1959 (continued)

			continued	1)					
	municipality	nt paid as part of together with p provided out of interest a	roportionate revenues of	share of other	-				
			Cimlein -				on made in		
Municipality			Sinking fund				ower from		
		Net provision	equity		Matured	matured	sinking fund		
		and interest	acquired		portion of				
	Balance	credited	through	Balance	sinking fund		1		
	Jan. 1, 1959	during year	annexation	Dec. 31, 1959	Jan. 1, 1959	Interest	Provision		
	\$	\$		0					
Brampton	717,442.73	67,620.60	\$	\$ 705.062.22	\$	\$	\$		
Brantford	4,064,890.44	338,662.31		785,063.33 4,403,552.75	82,374.17 94,024.69	3,294.97	867.40		
Brantford Twp	174,670.52	28,327.41		202,997.93	94,024.09	3,760.99	990.08		
Brechin	22,540.28	1,463.44		24,003.72					
Bridgeport	42,049.40	4,961.58		47,010.98					
70 1									
Brigden	38,994.12	2,409.36		41,403.48	2,438.75	97.55	25.68		
Brighton Brockville	78,837.58 934,636.44	8,907.22 98,083.41		87,744.80					
Brussels	57,297.26	5,161.03		1,032,719.85 62,458.29					
Burford	61,452.72	5,590.02		67,042.74	1,333.33	53.33	14.04		
Burgessville	20,342.79	1,538.59		21,881.38	756.89	30.28	7.97		
Burk's Falls	12,609.76	2,590.08		15,199.84					
Burlington	216,208.83	124,621.38	241,758.15	582,588.36					
Caledonia	91,999.51	7,426.20 829.83		99,425.71 829.83	7,317.19	292.69	77.05		
- ampoint at the term of the t		027.03		029.03					
Campbellville	12,904.78	1,178.09		14,082.87	116.81	4.67	1.23		
Cannington	61,990.64	5,419.76		67,410.40					
Cardinal	51,846.14	6,178.22		58,024.36					
Carleton Place	334,045.53	27,307.97		361,353.50					
Casselman	11,106.87	3,185.12		14,291.99					
Cayuga	41,082.25	3,394.51		44,476.76					
Chalk River	8,305.38	2,029.64		10,335.02					
Chatham	1,631,662.95	139,781.65	52,740.21	1,824,184.81	45,804.37	1,832.17	482.32		
Chatsworth	22,704.46	2,087.76		24,792.22					
Chesley	140,773.60	10,537.93		151,311.53	********				
Chesterville	105,059.43	9,767.12		114,826.55					
Chippawa	73,112.83	7,788.33		80,901.16	143.40	5.74	1.51		
Clifford	32,860.87	2,917.77		35,778.64					
Clinton	195,223.72	16,556.58		211,780.30	4,919.28	196.77	51.80		
Cobden	24,298.32	3,256.94		27,555.26					
Cobourg	419,241.58	55,321.58	607.38	475,170.54					
Colborne	41,748.77	5,398.98		47,147.75	45.040.26				
Coldwater	49,973.92	3,422.53		53,396.45	15,842.36	633.69	166.82		
Comber	556,308.62 57,910.68	31,805.04 3,499.09		588,113.66 61,409.77	360,860.40 777.78	14,434.42 31.11	3,799.86 8.19		
Compet	37,910.08	3,499,09		01,409.77	111.10	31.11	0,19		
Cookstown	25,075.41	2,367.57		27,442.98	1,864.20	74.57	19.63		
Cottam	21,261.04	1,860.07		23,121,11					
Creemers	20,833.14	1,518.06		22,351.20	1 620 13	64.91	17.06		
Creemore	45,700.16 33,164.62	3,855.49 2,492.19		49,555.65 35,656.81	1,620.13 1,600.19	64.81	17.06 16.85		
	33,104.02	2, 172, 19		00,000.01	1,000.19	01,01	10.00		
Photograph of the control of the con									

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1959

	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed						
Municipality		Net provision and interest	Sinking fund equity		Matured	cost of	on made in power from sinking fund
	Balance Jan. 1, 1959	credited during year	acquired through annexation	Balance Dec. 31, 1959	portion of sinking fund Jan. 1, 1959	Interest	Provision
	\$	\$	\$				
Deep River	11,594.09	13,048.27	1 "	\$	\$	\$	\$
Delaware	17,549.30	1,723.06		24,642.36			
Delhi	93,809.98	13,357.03		19,272.36	286.80	11.47	3.02
Deseronto	53,923.89	6,464.80		107,167.01			
Dorchester	31,604.49	2,750.78		60,388.69			
	31,004.49	2,730.70		34,355.27	624.88	25.00	6.58
Drayton	46,093.65	3,212.42		49,306.07	4 772 00	70.04	
Dresden	129,221.27	10,858.02		140,079.29	1,773.98	70.96	18.68
Drumbo	26,807.57	2,100.40		28,907.97	5,120.61	204.82	53.92
Dublin	20,614.47	1,693.12		22,307.59	675.21	27.01	7.11
Dundalk	53,981.70	4,526.18		58,507.88	897.44	35.90	9.45
	00,7010	1,020.10		30,307.00			
Dundas	563,929.96	44,700,79		608,630,75	97,836,66	3,913,47	1 020 00
Dunnville	295,128,90	27,364.52		322,493,42	6,627.73	1	1,030.22
Durham	121,628.94	11,457.90		133,086.84	0,027.73	265.11	69.79
Dutton	67,298.51	4,437.87		71,736.38	3,328.58	122.14	25.05
East York Twp	1,940,694.15	223,767.39		2,164,461.54		133.14	35.05
	, , , , , , , , , , , , , , , , , , , ,			2,104,401.54			
Eganville	6,931.58	2,424.29		9,355.87			ĺ
Elmira	318,060.58	25,778.54	42.85	343,881.97	40,603.99	1,624.16	427.56
Elmvale	56,471.99	3,334.94		59,806.93	27,519.47	1,024.10	289.78
Elmwood	19,046.58	1,525.88		20,572.46	27,319.41		
Elora	130,668.21	8,527.86		139,196.07	6,623,93	264,96	69.75
				207,770101	0,020.70	204,70	09.73
Embro	42,331.47	3,209.88		45,541,35	1,193.73	47.75	12.57
Erieau	35,393.58	3,087.54		38,481.12		17.75	12,57
Erie Beach	6,523.18	492.08		7.015.26			
Erin	12,765.98	2,884.44		15,650.42			
Essex	143,508.57	11,704.87		155,213.44	19,368.46	774.74	203.95
Etobicoke Twp	2,756,731.83	540,693.79		3,297,425.62	7,507.12	300.28	79.05
Exeter	189,068,99	16,704.98		205,773,97	4,969.61	198.78	
Fergus	293,763.17	26,798.74		320,561,91	4,339.03	173.56	52.33
Finch	21,244.28	1,977.51		23,221,79			45.69
Flesherton	26,322.93	2,515.13		28,838.06			
7							
Fonthill	50,720.20	6,775.84		57,496.04			
Forest	146,031.28	11,975.50		158,006.78	3,486.23	139.45	36.71
Forest Hill	982,531.29	92,842.42		1,075,373.71			
Frankford	16,778.26	3,316.69		20,094.95			
Galt	2,196,782.74	166,996.61		2,363,779.35	289,269.71	11,570.79	3,046.01
Georgetown	467 072 20	42.010.22		#00 one			
Glencoe	467,073.29	42,910.33		509,983.62	92,344.73	3,693.79	972.39
Goderich	72,658.54 486,224,65	5,439.90		78,098.44			
Grand Bend		43,186.20		529,410.85	13,759.73	550.39	144.89
Grand Valley	35,486.48	5,101.74		40,588.22	113.96	4.56	1.20
Tank vancy	49,737.07	4,088.88		53,825.95			

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1959

				<i>'</i>			
	municipality	nt paid as part of together with pr provided out of interest a					
. Municipality	P 1	Net provision and interest	Sinking fund equity acquired		Matured portion of	cost of p	on made in bower from sinking fund
	Balance Jan. 1, 1959	credited during year	through annexation	Balance Dec. 31, 1959	sinking fund Jan. 1, 1959	Interest	Provision
	\$	\$	\$	\$	\$. \$	\$
Granton	24,834.39	1,407.31		26,241.70	1,272.55	50.90	13,40
Gravenhurst	183,018.27	18,422.77		201,441.04			
Grimsby	103,843.65	15,855.99		119,699.64			
Guelph	2,594,389.90	228,382.46		2,822,772.36	275,512.82	11,020.51	2,901.15
Hagersville	264,580.87	16,437.81		281,018.68	41,236.47	1,649.46	434.22
Hamilton	23,321,780.71	2,232,550.32	3,905.91	25,558,236.94	1,061,764.48	42,470.58	11,180.38
Hanover	329,190.02	28,264.08		357,454.10			
Harriston	136,735.63	11,008.94		147,744.57	3,452.04	138.08	36.35
Harrow	124,220.74	10,622.59		134,843.33	6,473.88	258.96	68.17
Hastings	25,407.25	2,861.24		28,268.49			
Havelock	48,331.10	4,080.20		52,411.30			
Hawkesbury	35,536.57	12,189.35		47,725.92			
Hensall	69,772.40	6,201.70		75,974.10	2,858.50	114.34	30.10
Hespeler	518,241.58	39,892.69		558,134.27	42,323.84	1,692.95	445.67
Highgate	32,431.40	2,120.28		34,551.68	1,784.43	71.38	18.79
Holstein	10,257,88	875.49		11,133.37			
Huntsville	266,909.48	22,537.25		289,446.73			
Ingersoll	677,930.54	45,775.14		723,705.68	110,941.13	4,437.64	1,168.21
Iroquois	34,130.04	4,877.56		39,007.60			
Jarvis	53,078.18	3,622.23		56,700.41			
Kemptville	103,643.14	11,038.06		114,681.20			
Kincardine	193,446.06	17,768.39		211,214.45			
Kingston	1,630,258.16	222,699.03		1,852,957.19			
Kingsville	171,274.62	13,277.36		184,551.98	20,933.52	837.34	220.43
Kirkfield	11,374.96	848.57		12,223.53			
Kitchener	5,359,565.67	437,231.49		5,796,797.16	530,341.88	21,213.68	5,584.50
Lakefield	82,400.14	8,002.94		90,403.08			
Lambeth	50,758.01	5,522.09		56,280.10	566.00	22.64	5.96
Lanark	27,569.85	2,308.64		29,878.49			
Lancaster	22,251.17	1,966.43		24,217.60			
Leamington	441,012.18	42,136.86	1,214.36	484,363.40	24,666.67	986.67	259.74
Lindsay	566,835.10	56,958.19		623,793.29			
Listowel	322,185.42	24,997.96		347,183.38	11,147.20	445.89	117.38
London	8,564,451.40	568,372.32		9,132,823.72	1,058,871.79	42,354.87	11,149.92
London Twp	114,221.49	11,196.50		125,417.99			
Long Branch	291,351.83	39,882.11		331,233.94			
L'Orignal	5,827.67	1,714.50		7,542.17			
Lucan	68,131.48	5,133.36		73,264.84	4,061.73	162.47	42.77
Lucknow	83,100.78	6,572.88		89,673.66			
Lynden	41,697.37	2,752.38		44,449.75	2,845.20	113.81	29.96

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1959

Municipality Balance Jan. 1, 1959 Net provision and interest credited during year Sinking fund equity acquired through annexation Balance Dec. 31, 1959 Madoc. 54,244.38 5,936.32 60,180.70 Magnetawan 2,423.06 483.47 2,906.53 Markdale 47,706.12 4,782.07 52,488.19 Markham 108,162.98 15,496.87 123,659.85 Marmora 37,823.27 4,818.30 42,641.57 Martintown 10,140.12 1,068.00 11,208.12 Maxville 38,570.33 3,564.72 42,135.05 Meaford 173,645.69 19,062.55 192,708.24 Merlin 38,623.34 2,790.54 41,413.88 Merrickville 12,497.62 2,312.63 14,810.25 Merritton 1,142,146.34 126,395.27 1,268,541.61 Midland 803,498.58 48,044.58 851,543.16	Matured portion of sinking fund Jan. 1, 1959	cost of	on made in power from sinking fund
Jan. 1, 1959 during year annexation Dec. 31, 1959	Jan. 1, 1959	\$	\$
Madoc. 54,244.38 5,936.32 60,180.70 Magnetawan. 2,423.06 483.47 2,906.53 Markdale. 47,706.12 4,782.07 52,488.19 Markham. 108,162.98 15,496.87 123,659.85 Marmora. 37,823.27 4,818.30 42,641.57 Martintown. 10,140.12 1,068.00 11,208.12 Maxville. 38,570.33 3,564.72 42,135.05 Meaford. 173,645.69 19,062.55 192,708.24 Merlin. 38,623.34 2,790.54 41,413.88 Merrickville. 12,497.62 2,312.63 14,810.25 Merritton. 1,142,146.34 126,395.27 1,268,541.61			
Magnetawan 2,423.06 483.47 2,906.53 Markdale 47,706.12 4,782.07 52,488.19 Markham 108,162.98 15,496.87 123,659.85 Marmora 37,823.27 4,818.30 42,641.57 Martintown 10,140.12 1,068.00 11,208.12 Maxville 38,570.33 3,564.72 42,135.05 Meaford 173,645.69 19,062.55 192,708.24 Merlin 38,623.34 2,790.54 41,413.88 Merrickville 12,497.62 2,312.63 14,810.25 Merriton 1,142,146.34 126,395.27 1,268,541.61			
Markdale 47,706.12 4,782.07 52,488.19 Markham 108,162.98 15,496.87 123,659.85 Marmora 37,823.27 4,818.30 42,641.57 Martintown 10,140.12 1,068.00 11,208.12 Maxville 38,570.33 3,564.72 42,135.05 Meaford 173,645.69 19,062.55 192,708.24 Merlin 38,623.34 2,790.54 41,413.88 Merrickville 12,497.62 2,312.63 14,810.25 Merritton 1,142,146.34 126,395.27 1,268,541.61			
Markham 108,162,98 15,496.87 123,659.85 Marmora 37,823,27 4,818,30 42,641.57 Martintown 10,140,12 1,068.00 11,208.12 Maxville 38,570,33 3,564.72 42,135.05 Meaford 173,645.69 19,062.55 192,708.24 Merlin 38,623.34 2,790.54 41,413.88 Merrickville 12,497.62 2,312.63 14,810.25 Merritton 1,142,146.34 126,395.27 1,268,541.61			
Marmora. 37,823.27 4,818.30 42,641.57 Martintown. 10,140.12 1,068.00 11,208.12 Maxville. 38,570.33 3,564.72 42,135.05 Meaford. 173,645.69 19,062.55 192,708.24 Merlin. 38,623.34 2,790.54 41,413.88 Merrickville. 12,497.62 2,312.63 14,810.25 Merritton. 1,142,146.34 126,395.27 1,268,541.61			
Martintown 10,140.12 1,068.00 11,208.12 Maxville 38,570.33 3,564.72 42,135.05 Meaford 173,645.69 19,062.55 192,708.24 Merlin 38,623.34 2,790.54 41,413.88 Merrickville 12,497.62 2,312.63 14,810.25 Merritton 1,142,146.34 126,395.27 1,268,541.61			
Maxville. 38,570.33 3,564.72 42,135.05 Meaford. 173,645.69 19,062.55 192,708.24 Merlin. 38,623.34 2,790.54 41,413.88 Merrickville. 12,497.62 2,312.63 14,810.25 Merritton. 1,142,146.34 126,395.27 1,268,541.61			
Maxville. 38,570.33 3,564.72 42,135.05 Meaford. 173,645.69 19,062.55 192,708.24 Merlin. 38,623.34 2,790.54 41,413.88 Merrickville. 12,497.62 2,312.63 14,810.25 Merritton. 1,142,146.34 126,395.27 1,268,541.61			
Meaford 173,645.69 19,062.55 192,708.24 Merlin 38,623.34 2,790.54 41,413.88 Merrickville 12,497.62 2,312.63 14,810.25 Merritton 1,142,146.34 126,395.27 1,268,541.61			
Merlin 38,623.34 2,790.54 41,413.88 Merrickville 12,497.62 2,312.63 14,810.25 Merritton 1,142,146.34 126,395.27 1,268,541.61			
Merrickville 12,497.62 2,312.63 14,810.25 Merritton 1,142,146.34 126,395.27 1,268,541.61			
M: d1 d			
M: d1 d			
Wildland			
Mildmov 27.361.06	269,605.90	10,784.24	2,838.95
Mildmay 27,261,96 3,279.80 30,541.76 Millbrook 19,039.33 2,659.24 21,698.57			
Wilton 200 000 mg	70.525.64	2.004.40	
386,002.70 31,589.22 417,591.92	70,535.61	2,821.42	742.74
Milverton 140,811.88 9,277.10 150,088.98	9,114.91	364.60	95.98
Mimico	22,952.52	918.10	241.69
Mitchell	35,562.20	1,422,49	374.47
Moorefield	955.37	38.21	10.06
Morrisburg 53,733.76 8,069.36 61,803.12			
Mount Brydges 30,340.31 2,605.34 32,945.65			
Mount Francis	906.93	36.28	9.55
Name of the same o			
Neustadt 23.063.00 2.004.00			
Newboro			
Newburgh 6,966.15 1,430.63 8,396.78			
Newbury			
Newcastle			
New Hamburg 172,207.31 10,670.91 182,878.22	39,743.59	1,589.74	418.50
Newmarket			
New Toronto 1,970,732.17 200,339.34 2.171.071.51	04 500 45		
Nieman	91,500.47	3,660.02	963.50
Niagara Falls	1,385.57	55.42	14.59
North York Twp 3,513,180.39 747,631.36 4,260,811.75	92,683.76 69.33	3,707.35 2.77	975.96 .73
Norwich	33,373.22	1,334.93	351.42
		,	
Oil Springs 70,623.13 3,848.52 74,471.65 Omemee 21,268.26 2,670.66 61.64 24,000,56	3,206.08	128.24	33.76
Orangeville 210 520 46 22 562 27			
Orangeville			
Orillia			
Orono			
Oshawa			
Ottawa	800.57	32.02	8.43
Otterville	777.78	31.11	8.19

STATEMENT OF SINKING FUND EQUITY as at December 31, 1959

		(•		/			
	municipality t	t paid as part o ogether with pr provided out of interest a	oportionate revenues of t	share of other			
Municipality .		Net provision	Sinking fund equity acquired		Matured	cost of p	n made in ower from inking fund
	Balance Jan. 1, 1959	credited during year	through annexation	Balance Dec. 31, 1959	sinking fund Jan. 1, 1959	Interest	Provision
	\$	\$	\$	\$	\$	\$	\$
Owen Sound	1,035,339.32	88,937.62		1,124,276.94			
Paisley	44,638.48	3,654.47		48,292.95			
Palmerston	155,149.48	10,692.77		165,842.25	3,233.62	129.34	34.05
Paris	408,899.63	29,926.42		438,826.05	19,143.39	765.74	201.58
rarkiiii	78,319.38	6,737.75		85,057.13			
Parry Sound	48,988.16	10,301.96		59,290.12			
Penetanguishene	237,640.23	13,794.81		251,435.04	133,759.73	5,350.39	1,408.49
Perth	317,418.20	28,981.43	14.02	346,399.63			
Petrolia	2,156,451.70 324,449.17	242,961.40 19,659.98	14.02	2,399,427.12 344,109.15	14,204,18	568.17	149.57
Pickering	1,591.84	3,486.75		5,078.59			
Picton	273,115.60	26,876.09		299,991.69	1 021 10	74.05	20.22
Plattsville	44,262.52 316,979.80	4,509.63 29,377.57		48,772.15 346,357.37	1,921.18 3,581.20	76.85 143.25	20.23 37.71
Port Burwell	16,113.02	1,666.27		17,779.29	52.23	2.09	.55
Port Colborne	509,156.39	45,525.02		554,681.41	7 702 70	200 15	01.12
Port Credit	282,076.16	57,287.03		339,363.19	7,703.70	308.15	81.12
Port Dalhousie	164,623.81 129,451.72	13,448.22 13,467.01	2,405.41	178,072.03 145,324.14			
Port Elgin	90,246.69	9,207.20	2,403.41	99,453.89			
	440 720 10	52.010.25		E02 740 E2			
Port MoNicell	449,738.18 54,160.86	53,010.35 6,772.68		502,748.53 60,933.54	873.69	34.95	9.20
Port McNicoll	86,035.66	8,879.53		94,915.19			
Port Rowan	29,536.22	2,338.81		31,875.03			
Port Stanley	156,121.00	9,270.31		165,391.31	38,809.12	1,552.36	408.66
Prescott	241,398.82	24,964.90		266,363.72			
Preston	930,554.50	67,781.87	2,858.01	1,001,194.38	133,220.33	5,328.81	1,402.81
Priceville	4,036.60	370.79		4,407.39			
Princeton	35,505.65	2,496.84		38,002.49	419.75	16.79	4.42
Queenston	28,133.24	2,487.68		30,620.92			
Renfrew	106,853.38	18,932.93		125,786.31			
Richmond	20,636.28	2,809.39		23,445.67			
Richmond Hill	189,814.10	43,368.00		233,182.10			
Ridgetown	154,972.70	11,964.09		166,936.79	4,294.40	171.78	45.22
Ripley	32,266.80	2,665.84		34,932.64			
Riverside	389,642.49	39,883.91		429,526.40			
Rockland	13,086.44	4,268.45		17,354.89			442.40
Rockwood	43,047.43	2,956.30		46,003.73	13,626.78	545.07	143.49
Rodney	52,304.96	4,168.47		56,473.43	1,596.39	63.86	16.81
Rosseau	13,955.72	977.79		14,933.51			
D "	22,743.99	2,011.92		24,755.91			
Russell		215 020 20		3,691,368.81			
St. Catharines	3,375,539.53	315,829.28	5				
St. Catharines St. Clair Beach	32,092.40	3,708.14		35,800.54	2.660.97	106,44	28.02
St. Catharines			5		2,660.97 2,046.53	106.44 81.86	28.02 21.55

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1959

Municipality		municipality:	nt paid as part of together with pr provided out of interest a					
Jan. 1, 1959 during year annexation Dec. 31, 1959 Jan. 1, 1959 Interest F	Municipality	Datassa	and interest	fund equity acquired			cost of matured	ion made in power from sinking fund
St. Homas	BIA CONTRACTOR OF THE PROPERTY							Provision
St. Thomas. 1,710,862,07 11,25,89,89 1,762,35 1,825,214,31 294,211,78 11,768,47 Sandwich East Twp. 101,366,00 31,638,50 193,005,10 202,721,14 56,080,95 348,802,09 2,230,03 2,493,56 Sarnia. 2,850,083,75 648,504,63 3,498,588,38 62,339,03 2,493,56 Scarborough Twp. 2,843,191,13 603,522,03 3,446,713,16 83,440,65 3,337,63 Seaforth. 204,903,02 9,955,47 214,858,49 83,440,65 3,337,63 Shelburne 81,939,59 7,091,21 89,030,80 5,055,08 202,20 Smitche 204,940,84 47,919,91 546,534,05 5,055,08 202,20 Smithville 29,808,21 2,069,96 31,878,17 846,15 33,85 Stanford Twp. 631,611,50 91,986,88 722,098,38 12,095,92 438,84 Stayer 75,261,33 5,644,79 57,793,33 3 1,249,80 Striling 52,328,54 5,464,79 57,793,33	St. Mary's							\$ 1
Sandwich East Twp. 161,366,60 31,638,50 193,005,10 18,768,71 Sandwich West Twp. 292,721,14 56,080,95 348,802,00 28,360,083,75 Sarnia 2,850,083,75 648,504,63 3,498,588,38 62,339,03 2,493,56 Scarborough Twp. 2,843,191,13 603,522,03 3,446,713,16 83,440,65 3,337,63 Sceiorth. 204,903,02 9,955,47 214,888,49 83,440,65 3,337,63 Shelburne 81,939,59 7,091,21 89,030,80 50,550,88 202,20 Simcoe 502,550,74 49,988,71 552,539,45 5,055,08 202,20 Smith's Falls 498,614,14 47,919,91 546,534,05 5,055,08 202,20 Smithylle 29,644,68 3,696,75 33,341,43 33,548,58 5,055,08 202,20 Smithylle 29,644,68 3,696,75 33,341,43 34,545,64 33,548,545,69 94,746,43 34,605,50 33,85 5,055,08 202,20 433,84 5,044,69 5,763,33 5,444,69 <								929.91
Sandwich West Twp. 292,221.14 56,080,95 348,802.09 32,830,03 2,493,56 Sarnia 2,850,083.75 648,504,63 3,498,588.38 62,339.03 2,493,56 Scarborough Twp. 2,843,191.13 668,522,033 3,446,713.16 83,440.65 3,337.63 Seaforth. 204,903.02 9,955,47 214,888.49 83,440.65 3,337.63 Shelburne 81,939,59 7,091.21 89,030.80 50,2550.74 29,888.71 552,539.45 5,055.08 202.20 Smith's Falls 498,614.14 47,919.91 546,534.05 5,055.08 202.20 Smithville 29,604.68 3,696.75 33,341.43 3 20,20 Smithville 29,808.21 20,69.96 31,878.17 846.15 33,85 Stamford Twp. 631,611.50 91,086.88 722,698.38 12,095.92 483.84 Straper 75,261.93 5,684.06 80,945.99 31,245.01 1,249.80 Striling 52,328.54 5,464.79 57,793.33 12,249.80 <							11,768.47	3,098.05
Sarnia 2,850,083.75 648,504,63 3,498,588.38 62,339.03 2,493,56 Scarborough Twp. 2,843,191.13 603,522.03 3,446,713.16 83,440.65 3,337.63 Seaforth. 204,903.02 9,955.47 214,858.49 83,440.65 3,337.63 Shebburne 81,939.59 7,091.21 89,030.80 50.55.08 202.20 Simcoe 502,550.74 49,988.71 552,539.45 5,055.08 202.20 Smith's Falls 498,614.14 47,919.91 546,534.05 5,055.08 202.20 Smithville 29,644.68 3,696.75 33,341.43 346.15 33,85 Southampton 86,089.44 8,656.99 94,746.43 846.15 33,85 Stamford Twp 631,611.50 91,086.88 722,698.83 120,959.22 483,84 Stamford Twp 631,611.50 91,086.88 722,698.83 120,959.22 483,84 Stonge Creek 73,227.27 17,470.79 90,698.0 31,245.01 1,249.80 Striling 52,2								
Scarborough Twp. 2,843,191,13 603,522,03 3,446,713,16 Seaforth. 204,903,02 9,955,47 214,858,49 83,440.65 3,337,63 Sheburne 81,939,59 7,091,21 89,030,80 Simcoe. 502,550,74 49,988,71 552,539,45 5,055,08 202,20 Smitch's Falls. 498,614,14 47,919,91 546,534,05 5,055,08 202,20 Smitch's Falls. 498,614,14 47,919,91 546,534,05 5,055,08 202,20 Smitchille 20,644,68 3,696,75 33,341,43 Southampton 86,089,44 86,656,99 94,746,43 Springfield 29,808,21 2,069,96 31,878,17 846,15 33,85 Stamford Twp. 631,611,50 91,086,88 722,698,38 12,095,92 483,84 Stamford Twp. 631,611,50 91,086,88 722,698,38 12,095,92 483,84 Stamford Twp. 632,328,54 5,464,79 57,793,33 512,45,01 1,249,80 Stamford Twp. 33,218,54 5,464,79 57,793,33 512,45,01 1,249,80 Stamford Twp. 337,181,54 26,850,37 364,031,91 9,301,99 372,08 Stratford 1,951,950,30 129,147,11 2,081,097,41 221,883,19 8,875,33 25,444,09 337,181,54 26,850,37 364,031,91 9,301,99 372,08 Streetsville 75,012,45 15,050,13 90,062,88 Sunderland 38,505,90 3,375,02 41,880,92 41,880,92 Sunderland 38,505,90 3,375,02 41,880,92 Sunderland 43,345,50 42,366,11 480,911,20 Sunderland 43,345,50 42,366,11 480,911,20 Sunderland 43,345,50 42,366,11 480,911,20 Sunderland 43,345,50 42,366,11 480,911,20 Sunderland 43,345,50								656 42
Seaforth. 204,903.02 9,955.47 214,858.49 83,440.65 3,337.63 Shelburne. 81,939.59 7,091.21 89,030.80 80,030.80 Simcoe. 502,550.74 49,988.71 552,539.45 5,055.08 202.20 Smith's Falls. 498,614.14 47,919.91 546,534.05 5,055.08 202.20 Smithville. 29,644.68 3,696.75 33,341.43 5,055.08 202.20 Smithville. 29,684.68 8,656.99 94,746.43 3 5,055.08 202.20 Springfield. 29,802.21 2,069.96 31,878.17 846.15 33.85 Stamford Twp. 631,611.50 91,086.88 722,698.38 12,095.92 483.84 Stamford Twp. 63,232.81					0,150,000.00	02,339.03	2,493.30	656.43
Shelburne \$1,939.59 7,091.21 \$9,030.80 3,370.30 Simcoe 502,550.74 49,988.71 552,539.45 5,055,08 202.20 Smith's Falls 498,614.14 47,919.91 546,534.05 5,055,08 202.20 Smithville 29,644.68 3,696.75 33,341.43 3 3,000								
Simcoe 502,550,74 49,988.71 552,539.45 5,055.08 202,20 Smith's Falls 498,614.14 47,919.91 546,534.05 3.055.08 202,20 Smithville 29,644.68 3,696,75 33,341.43 3.341.43 3.355.04 Southampton 86,089.44 8,656.99 94,746.43 3.97.72 846.15 33.85 Stamford Twp. 631,611.50 91,086.88 722,099.38 12,095.92 483.84 Stamford Twp. 631,611.50 91,086.88 722,099.38 12,095.92 483.84 Stamford Twp. 52,328.54 5,464.79 57,793.33 12,095.92 483.84 Stamford Twp. 98,240.96 11,981.37 110,222.33 110,222							3,337.63	878.63
Smith's Falls. 498,614.14 47,919.91 546,534.05 Smithville 29,644.68 3,696.75 33,341.43 Southampton 86,089.44 8,656.99 94,746.43 Springfield 29,808.21 2,069.96 31,878.11 846.15 33.85 Stamford Twp. 631,611.50 91,086.88 722,098.38 12,095.92 483.84 Stayer 75,261.93 5,684.06 80,945.99 31,245.01 1,249.80 Stirling 52,328.54 5,464.79 57,793.33 Stoney Creek 73,227.27 17,470.79 90,089.06 Stouffville 98,240.96 11,981.37 110,222.33 8,875.33 221,883.19 8,875.33								
Smithville 29,644.68 3,696.75 33,341.43 <	Smith's Falls.							53.23
Southampton \$6,089.44 8,656.99 94,746.43 846.15 33.85 Springfield 29,808.21 2,069.96 31,878.17 846.15 33.85 Stamford Twp. 631,611.50 91,086.88 722,698.38 12,095.92 483.84 Stayner 75,261.93 5,684.06 80,945.99 31,245.01 1,249.80 Striling 52,328.54 5,464.79 57,793.33 Stoney Creek 73,227.27 17,470.79 90,698.06 Stoney Creek 73,227.27 17,470.79 90,698.06 Stoney Creek 73,227.27 17,470.79 90,698.06 Strafford 1,951,950.30 129,147.11 2,081,097.41 221,883.19 8.875.33 2 Strathroy 337,181.54 26,850.37 364,031.91 9,301.99 372.08 Streetsville 75,012.45 15,050.13 90,062.58 Sundridge 71,44.60 1,921.87 9,066.47 <td></td> <td></td> <td></td> <td></td> <td>540,554.05</td> <td></td> <td>*******</td> <td></td>					540,554.05		*******	
Sotriampton 86,089,44 8,656.99 94,746.43	Smithville				33,341.43			
Stamford Twp. 631,611,50 91,086.88 722,698.38 12,095.92 483.84 Stayner. 75,261.93 5,684.06 80,945.99 31,245.01 1,249.80 Stirling. 52,328.54 5,464.79 57,793.33 Stoney Creek 73,227.27 17,470.79 90,698.06 Stouffville. 98,240.96 11,981.37 11,022.33 Stratford. 1,951,950.30 129,147.11 2,081,097.41 221,883.19 8,875.33 Strathroy. 337,181.54 26,850.37 364,031.91 9,301.99 372.08 Streetsville. 75.012.45 15,050.13 90,062.58 Sunderland. 38,505.90 3,375.02 41,880.92 Sundridge. 7,144.60 1921.87 9,066.47 Swansea. 438,545.09 42,366.11 480,911.20 Tara 34,254.54 3,023.18 37,27					94,746.43		1	
Stayner. 75,261,93 5,684.06 80,945,99 31,245.01 1,249.80 Stirling. 52,328.54 5,464.79 57,793.33	Stamford Two					846.15	33.85	8.91
Stirling	Stayner							127.37
Stoney Creek 73,227,27 17,470.79 90,698.06 1 Stouffville 98,240.96 11,981.37 110,222.33 110,223.33 2 Stratford 1,951,950.30 129,147.11 2,081,097.41 221,883.19 8,875.33 2 Strathroy 337,181.54 26,850.37 364,031.91 9,301.99 372.08 Streetsville 75,012.45 15,050.13 90,062.58 8 8 Sunderland 38,505.90 3,375.02 41,880.92 9 1006.47 9,066.47 9,066.47 9,066.47 9,066.47 9,066.47 9,066.47 9,069.52 9,066.47 9,067.41 9,067.21 1,066.47 9,067.41 9,067.41 9,067.41 9,066.47 9,067.41 9,066.41 1,066.41 1,066.41 1,0	Stay net	73,201,93	5,084.00		80,945.99	31,245.01	1,249.80	329.01
Stoney Creek 73,227,27 17,470,79 90,698,06 Stouffville 98,240,96 11,981,37 110,222,33 Stratford 1,951,950,30 129,147,11 2,081,097,41 221,883,19 8,875,33 2 Strathroy 337,181,54 26,850,37 364,031,91 9,301,99 372,08 Streetsville 75,012,45 15,050,13 90,062,58 50,006,47 <	Stirling	52,328.54	5,464.79		57,793.33			
Stoulville 98,240,96	Stoney Creek		17,470.79		90,698.06			
Stratord 1,951,950.30 129,147.11 2,081,097.41 221,883.19 8,875.33 2 Strathroy 337,181.54 26,850.37 364,031.91 9,301.99 372.08 Streetsville 75,012.45 15,050.13 90,062.58 8 Sunderland 38,505.90 3,375.02 41,880.92 Sundridge 7,144.60 1,921.87 9,066.47 Sutton 84,080.34 8,084.93 92,165.27 Swansea 438,545.09 42,366.11 480,911.20 Tara 34,254.54 3,023.18 37,277.72 Tavistock 155,748.63 9,284.57 165,033.20 8,984.81 359.39 Tecumsch 117,779.87 10,208.96 127,988.83	Stouffville				110,222.33			
Streetsville 75,012.45 15,050.13 90,062.58 Sunderland 38,505.90 3,375.02 41,880.92 Sundridge 7,144.60 1,921.87 9,066.47 Sutton 84,080.34 8,084.93 92,165.27 Swansea 438,545.09 42,366.11 480,911.20 Tara 34,254.54 3,023.18 37,277.72 Tavistock 155,748.63 9,284.57 165,033.20 8,984.81 359.39 Tecumsch 117,779.87 10,208.96 127,988.83 Teeswater 51,718.15 5,019.42 56,737.57 Thamesford 64,268.78 5,383.13 69,651.91 2,688.51 107.54 Thamesville 69,924.81 5,824.55 75,749.36 1,609.69 64.39 Thedford 40,339.51 3,512.59 43,852.10 Thornbury 19,426.20 3,676.23 23,102.43 .	Strathrov	,						2336.43
Sunderland 38,505,90 3,375.02 41,880,92 3.375.02 41,880,92 3.375.02 41,880,92 3.375.02 41,880,92 3.375.02 41,880,92 3.375.02 41,880,92 3.375.02 3.375.02 41,880,92 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 3.375.03 <td>outenioy</td> <td>337,181.54</td> <td>20,850.37</td> <td></td> <td>364,031.91</td> <td>9,301.99</td> <td>372.08</td> <td>, 97.95</td>	outenioy	337,181.54	20,850.37		364,031.91	9,301.99	372.08	, 97.95
Sunderland. 38,505,90 3,375,02 41,880,92 Sundridge. 7,144,60 1,921,87 9,066,47 Sutton. 84,080,34 8,084,93 92,165,27 Swansea. 438,545,09 42,366,11 480,911,20 Tara. 34,254,54 3,023,18 37,277,72 Tavistock. 155,748,63 9,284,57 165,033,20 8,984,81 359,39 Tecumseh. 117,779,87 10,208,96 127,988,83 Tecswater. 51,718,15 5,019,42 56,737,57 Thamesford. 64,268,78 5,383,13 69,651,91 2,688,51 107,54 Thamesville. 69,924,81 5,824,55 75,749,36 1,609,69 64,39 Thedford. 40,339,51 3,512,59 43,852,10 1,609,69 64,39 Thornbury. 19,426,20 3,676,23 23,102,43 1,947,77 77,91 Thornton. 12,402,85 956,63	Streetsville	75,012.45	15,050.13		90,062,58			
Sundridge. 7,144.60 1,921.87 9,066.47 Sutton. 84,080.34 8,084.93 92,165.27 Swansea. 438,545.09 42,366.11 480,911.20 Tara. 34,254.54 3,023.18 37,277.72 Tavistock. 155,748.63 9,284.57 165,033.20 8,984.81 359.39 Tecumseh. 117,779.87 10,208.96 127,988.83 1,696.61,93 1,609.69 64.39 43,852.10 1,609.69 64.39 4,699.18 127,517.77	Sunderland	38,505.90						
Sutton. 84,080,34 438,545.09 8,084,93 42,366.11 92,165,27 480,911,20 Tara. 34,254.54 3,023.18 37,277.72 37,277.72 165,033.20 8,984.81 359,39	Sundridge				9,066.47		1	
Tara 34,254,54 3,023.18 37,277.72 Tavistock 155,748.63 9,284.57 165,033.20 8,984.81 359.39 Tecumseh 117,779.87 10,208.96 127,988.83 127,999.99 127,999.99 127,999.99	Swancea							
Tavistock. 155,748.63 9,284.57 165,033.20 8,984.81 359.39 Tecumseh. 117,779.87 10,208.96 127,988.83 127,988.84 127,988.83 127,988.83 127,988.83 127,988.83 127,988.83 127,988.83 127,988.83 127,988.83 127,988.83 127,988.81 127,689.69 64.39 127,689.69 64.39 127,689.69 64.39 127,492.9 127,497.77 127,691 127,497.95 127,497.95	Owanisca	438,345.09	42,366.11		480,911.20			
Taylstock. 155,748.63 9,284.57 165,033.20 8,984.81 359.39 Tecumseh. 117,779.87 10,208.96 127,988.83	Tara	34,254.54	3,023.18		37,277,72			
Tecumsel. 117,779.87 10,208,96 127,988.83 Teeswater 51,718.15 5,019.42 56,737.57 Thamesford 64,268.78 5,383.13 69,651.91 2,688.51 107.54 Thamesville 69,924.81 5,824.55 75,749.36 1,609.69 64.39 Thedford 40,339.51 3,512.59 43,852.10 1 40.96.69 64.39 Thornbury 19,426.20 3,676.23 23,102.43 1,609.69 64.39 Thorndale 30,504.82 2,105.27 32,610.09 1,947.77 77.91 Thornton 12,402.85 956.63 13,359.48 268.76 10.75 Thorold 575,448.59 71,629.17 647,077.76 7 7 Tilbury 206,902.98 13,530.99 220,433.97 2,749.29 109.97 Tillsonburg 356,616.93 26,663.72 383,280.65 117,479.58 4,699.18 Toronto 68,523,740.77 5,024,299.57 73,548,040.34 4,262,690.41 170,507.62 <td< td=""><td></td><td></td><td>9,284.57</td><td></td><td></td><td></td><td></td><td>94.61</td></td<>			9,284.57					94.61
Thamesford 64,268.78 5,383.13 69,651.91 2,688.51 107.54 Thamesford 64,268.78 5,383.13 69,651.91 2,688.51 107.54 Thamesville 69,924.81 5,824.55 75,749.36 1,609.69 64.39 Thedford 40,339.51 3,512.59 43,852.10 Thornbury 19,426.20 3,676.23 23,102.43 Thorndale 30,504.82 2,105.27 32,610.09 1,947.77 77.91 Thornton 12,402.85 956.63 13,359.48 268.76 10.75 Thorold 575,448.59 71,629.17 647,077.76 Tilbury 206,902.98 13,530.99 220,433.97 2,749.29 109.97 Tillsonburg 356,616.93 26,663.72 383,280.65 117,479.58 4,699.18 1 Toronto 68,523,740.77 5,024,299.57 73,548,040.34 4,262,690.41 170,507.62 44 Toronto Twp. 1,284,840.97 266,246.82 1,551,087.79 21,680.91 867.24 Tottenham 40,742.08 3,318.53 44,060.61 1,078.82 43.15 Trafalgar Twp. 228,693.14 94,244.67 322,937.81	Tecumseli				127,988.83			
Thamesville 69,924.81 5,824.55 75,749.36 1,609.69 64.39 Thedford 40,339.51 3,512.59 43,852.10 76,709.10 Thornbury 19,426.20 3,676.23 23,102.43 Thorndale 30,504.82 2,105.27 32,610.09 1,947.77 77.91 7	Thamesford		4					
Thedford. 40,339.51 3,512.59 43,852.10	2 maniestora	04,208.78	5,383.13		69,651.91	2,688.51	107.54	28.31
Thedford 40,339.51 3.512.59 43,852.10 <td>Thamesville</td> <td>69,924.81</td> <td>5,824.55</td> <td></td> <td>75,749.36</td> <td>1,609.69</td> <td>64.39</td> <td>16.95</td>	Thamesville	69,924.81	5,824.55		75,749.36	1,609.69	64.39	16.95
Thornbury 19,426.20 3,676.23 23,102.43	Thedford		3,512.59	1			i i	
Thornton. 12,402.85 956.63 13,359.48 268.76 10.75 Thornton. 575,448.59 71,629.17 647,077.76 Tilbury 206,902.98 13,530.99 220,433.97 2,749.29 109.97 Tillsonburg 356,616.93 26,663.72 383,280.65 117,479.58 4,699.18 1 Toronto 68,523,740.77 5,024,299.57 73,548.040.34 4,262,690.41 170,507.62 17,000 17,000 17,284,840.97 266,246.82 1,551,087.9 21,680.91 867.24 Tottenham 40,742.08 3,318.53 44,060.61 1,078.82 43.15 Trafalgar Twp 228,693.14 94,244.67 322,937.81	Thornbury				23,102.43			
Thorold. 575,448.59 71,629,17 647,077.76 Tilbury 206,902.98 13,530.99 220,433.97 2,749.29 109.97 Tillsonburg 356,616.93 26,663.72 383,280.65 117,479.58 4,699.18 1 Toronto 68,523,740.77 5,024,299.57 73,548,040.34 4,262,690.41 170,507.62 44 Toronto Twp. 1,284,840.97 266,246.82 1,551,087.79 21,680.91 867.24 Tottenham 40,742.08 3,318.53 44,060.61 1,078.82 43.15 Trafalgar Twp. 228,693,14 94,244.67 322,937.81					32,610.09	1,947.77		20.51
Tilbury 206,902.98 13,530.99 220,433.97 2,749.29 109.97 Tillsonburg 356,616.93 26,663.72 383,280.65 117,479.58 4,699.18 1 Toronto 68,523,740.77 5,024,299.57 73,548,040.34 4,262,690.41 170,507.62 44 Toronto Twp. 1,284,840.97 266,246.82 1,551,087.79 21,680.91 867.24 Tottenham 40,742.08 3,318.53 44,060.61 1,078.82 43.15 Trafalgar Twp. 228,693.14 94,244.67 322,937.81 40.742.08 33.18.53	A MOTHEUII	12,402.85	956.63		13,359.48	268.76	10.75	2.83
Tilbury 206,902.98 13,530.99 220,433.97 2,749.29 109.97 Tillsonburg 356,616.93 26,663.72 383,280.65 117,479.58 4,699.18 1 Toronto 68,523,740.77 5,024,299.57 73,548,040.34 4,262,690.41 170,507.62 44 Toronto Twp. 1,284,840.97 266,246.82 1,551,087.79 21,680.91 867.24 Tottenham 40,742.08 3,318.53 44,060.61 1,078.82 43.15 Trafalgar Twp. 228,693.14 94,244.67 322,937.81 43.15		575,448.59	71,629.17		647.077.76			
Tillsonburg 356,616.93 26,663.72 383,280.65 117,479.58 4,699.18 1 Toronto 68,523,740.77 5,024,299.57 73,548,040.34 4,262,690.41 170,507.62 44 Toronto Twp. 1,284,840.97 266,246.82 1,551,087.79 21,680.91 867.24 Tottenham 40,742.08 3,318.53 44,060.61 1,078.82 43.15 Trafalgar Twp. 228,693.14 94,244.67 322,937.81	Tilbury		13,530.99	i i				28.95
Toronto 68,523,740,77 5,024,299,57 73,548,040,34 4,262,690,41 170,507.62 44 Toronto Twp. 1,284,840,97 266,246.82 1,551,087.79 21,680,91 867.24 Tottenham 40,742.08 3,318.53 44,060.61 1,078.82 43.15 Trafalgar Twp. 228,693,14 94,244.67 322,937.81	Tillsonburg							1,237.06
Tottenham 40,742.08 3,318.53 44,060.61 1,078.82 43.15 Trafalgar Twp. 228,693.14 94,244.67 322,937.81	Toronto Two				73,548,040.34			44,886.13
Trafalgar Twp 228,693,14 94,244.67 322,937,81	Toronto Twp	1,284,840,97	266,246.82		1,551,087.79	21,680.91	867.24	228.30
Trafalgar Twp 228,693.14 94,244.67 322 937 81		40,742.08	3,318.53		44.060.61	1 078 82	13.15	11.36
	Trafalgar Twp	228,693.14						
Trenton	Trenton		91,812.26					
1 weed 65,079.19 6,878.47 71,957.66								
Uxbridge 98.015.82 10.794.97	Cxbridge	98,015.82	10,794.97		108,810.79			

SOUTHERN ONTARIO SYSTEM STATEMENT OF SINKING FUND EQUITY

as at December 31, 1959 (concluded)

Vankleek Hill. 9,194.42 2,727.13 11,921.55 . Victoria Harbour 26,506.01 2,420.51 28,926.52 1,245.01 49.80 Walkerton. 152,181.29 16,592.44 168,773.73 . 169,782.75 948,033.88 21,005.70 840.23 Wardsville. 16,240.70 1,474.89 17,715.59 . . . Warkworth. 19,393.89 1,850.13 21,244.02 . . Wasaga Beach. 13,689.08 3,517.31 17,206.39 . . Waterdown. 83,199.07 6,681.24 89,880.31 17,490.03 699.60 Waterford. 114,736.28 8,622.54 222.64 123,581.46 4,099.72 163.99 Waterford. 102,320.06 92,88.68 11,1608.74 1,698.96 67.96 Waubaushene. 22,931.37 2,194.97 25,126.34 724.60 28.98 Welland. 1,378,716.56 107,600.62 1,486,317.18 111,118.71 4,444.75 1 <th>from</th>	from
Municipality	from
Balance Jan. 1, 1959 during year through annexation Dec. 31, 1959 Sinking fund Jan. 1, 1959 Interest Properties P	
Vankleek Hill 9,194.42 2,727.13 11,921.55 Victoria Harbour 26,506.01 2,420.51 28,926.52 1,245.01 49.80 <th>ovision</th>	ovision
Vankleek Hill 9,194.42 2,727.13 11,921.55	\$
Victoria Harbour 26,506.01 2,420.51 28,926.52 1,245.01 49.80 Walkerton 152,181.29 16,592.44 168,773.73 1.245.01 49.80 Wallaceburg 878,251.13 69,782.75 948,033.88 21,005.70 840.23 Wardsville 16,240.70 1,474.89 17,715.59 17,715.59 Warkworth 19,393.89 1,850.13 21,244.02 Wasaga Beach 13,689.08 3,517.31 17,206.39 Waterdown 83,199.07 6,681.24 89,880.31 17,490.03 699.60 Waterford 114,736.28 8,622.54 222.64 123,581.46 4,099.72 163.99 Waterloo 1,131,396.07 98,344.20 1,229,740.27 111,507.12 4,460.28 1 Watford 102,320.06 9,288.68 111,608.74 1,698.96 67.96 Waubaushene 22,931.37 2,194.97 25,126.34 724.60 28.98 Welland 1,378,716.56 107,600.62 1,486.31.8 <td></td>	
Wallaceburg 878,251.13 69,782.75 948,033.88 21,005.70 840.23 Wardsville 16,240.70 1,474.89 17,715.59 21,005.70 840.23 Warkworth 19,393.89 1,850.13 21,244.02 21,005.70 840.23 Wasaga Beach 13,689.08 3,517.31 17,206.39 3.17,490.03 699.60 Waterdown 83,199.07 6,681.24 89,880.31 17,490.03 699.60 Waterford 114,736.28 8,622.54 222.64 123,581.46 4,099.72 163.99 Waterloo 1,131,396.07 98,344.20 1,229,740.27 111,507.12 4,460.28 1 Watford 102,320.06 9,288.68 111,608.74 1,698.96 67.96 67.96 Waubaushene 22,931.37 2,194.97 25,126.34 724.60 28.98 111,118.71 4,444.75 1 Wellesley 52,562.93 3,628.02 56,190.95 3,868.00 154.72 Wellington 50,852.61 4,599.47 55,452.08	13.11
Wardsville. 16,240.70 1,474.89 17,715.59 Warkworth 19,393.89 1,850.13 21,244.02 Wasaga Beach 13,689.08 3,517.31 17,206.39 Waterdown 83,199.07 6,681.24 89,880.31 17,490.03 699.60 Waterford 114,736.28 8,622.54 222.64 123,581.46 4,099.72 163.99 Waterloo 1,131,396.07 98,344.20 1,229,740.27 111,507.12 4,460.28 1 Watford 102,320.06 9,288.68 111,608.74 1,698.96 67.96 Waubaushene 22,931.37 2,194.97 25,126.34 724.60 28.98 Welland 1,378,716.56 107,600.62 1,486,317.18 111,118.71 4,444.75 1 Wellesley 52,562.93 3,628.02 56,190.95 3,868.00 154.72 Wellington 50,852.61 4,599.47 55,452.08 144,754.27 968.66 38.75 West Lorne	
Warkworth 19,393.89 1,850.13 21,244.02 Wasaga Beach 13,689.08 3,517.31 17,206.39 Waterdown 83,199.07 6,681.24 89,880.31 17,490.03 699.60 Waterford 114,736.28 8,622.54 222.64 123,581.46 4,099.72 163.99 Waterloo 1,131,396.07 98,344.20 1,229,740.27 111,507.12 4,460.28 1 Watford 102,320.06 9,288.68 111,608.74 1,698.96 67.96 Waubaushene 22,931.37 2,194.97 25,126.34 724.60 28.98 Welland 1,378,716.56 107,600.62 1,486,317.18 111,118.71 4,444.75 1 Wellesley 52,562.93 3,628.02 56,190.95 3,868.00 154.72 Wellington 50,852.61 4,599.47 55,452.08 114,754.27 968.66 38.75 West Lorne 105,627.29 9,126.98 114,754.27 968.66 38.75 Westport <td>221.19</td>	221.19
Wasaga Beach 13,689.08 3,517.31 17,206.39	
Wasaga Beach 13,689.08 3,517.31 17,206.39	
Waterdown 83,199.07 6,681.24 89,880.31 17,490.03 699.60 Waterford 114,736.28 8,622.54 222.64 123,581.46 4,099.72 163.99 Waterloo 1,131,396.07 98,344.20 1,229,740.27 111,507.12 4,460.28 1 Watford 102,320.06 9,288.68 111,608.74 1,698.96 67.96 Waubaushene 22,931.37 2,194.97 25,126.34 724.60 28.98 Welland 1,378,716.56 107,600.62 1,486,317.18 111,118.71 4,444.75 1 Wellesley 52,562.93 3,628.02 56,190.95 3,868.00 154.72 West Lorne 105,627.29 9,126.98 114,754.27 968.66 38.75 Weston 921,462.98 69,112.84 990,575.82 95,851.83 3,834.07 1 Westport 27,255.33 2,636.26 29,891.59 Wheatley 67,516.49 6,527.19 11.04 74,054.72 <t< td=""><td></td></t<>	
Waterford. 114,736.28 8,622.54 222.64 123,581.46 4,099.72 163.99 Waterloo. 1,131,396.07 98,344.20 1,229,740.27 111,507.12 4,460.28 1 Watford. 102,320.06 9,288.68 111,608.74 1,698.96 67.96 Waubaushene. 22,931.37 2,194.97 25,126.34 724.60 28.98 Welland. 1,378,716.56 107,600.62 1,486,317.18 111,118.71 4,444.75 1 Wellesley. 52,562.93 3,628.02 56,190.95 3,868.00 154.72 Wellington 50,852.61 4,599.47 55,452.08 114,754.27 968.66 38.75 West Lorne. 105,627.29 9,126.98 114,754.27 968.66 38.75 Westport. 27,255.33 2,636.26 29,891.59 95,851.83 3,834.07 1 Wheatley. 67,516.49 6,527.19 11.04 74,054.72 1 1 Whitby. 343,906.50 56,443.40 400,349.90 1	40447
Waterloo 1,131,396.07 98,344.20 1,229,740.27 111,507.12 4,460.28 1 Watford 102,320.06 9,288.68 111,608.74 1,698.96 67.96 Waubaushene 22,931.37 2,194.97 25,126.34 724.60 28.98 Welland 1,378,716.56 107,600.62 1,486,317.18 111,118.71 4,444.75 1 Wellesley 52,562.93 3,628.02 56,190.95 3,868.00 154.72 Wellington 50,852.61 4,599.47 55,452.08 114,754.27 968.66 38.75 West Lorne 105,627.29 9,126.98 114,754.27 968.66 38.75 Westport 27,255.33 2,636.26 29,891.59 95,851.83 3,834.07 1 Wheatley 67,516.49 6,527.19 11.04 74,054.72 1 1 Whitby 343,906.50 56,443.40 400,349.90 1 1 1 Wiarton 86,145.56 9,200.98 95,346.54 1 1	184.17 43.17
Watford. 102,320.06 9,288.68 111,608.74 1,698.96 67,96 Waubaushene. 22,931.37 2,194.97 25,126.34 724.60 28,98 Welland. 1,378,716.56 107,600.62 1,486,317.18 111,118.71 4,444.75 1 Wellesley. 52,562.93 3,628.02 56,190.95 3,868.00 154.72 Wellington. 50,852.61 4,599.47 55,452.08 114,754.27 968.66 38.75 West Lorne. 105,627.29 9,126.98 114,754.27 968.66 38.75 Weston 921,462.98 69,112.84 990,575.82 95,851.83 3,834.07 1 Westport 27,255.33 2,636.26 29,801.59 20,801.59 80.145.59 1 Wheatley 67,516.49 6,527.19 11.04 74,054.72 1 1 Whitby 343,906.50 56,443.40 400,349.90 1 1 3 1 Williamsburg 23,945.84 1,997.33 25,943.17 1	174.17
Waubaushene 22,931.37 2,194.97 25,126.34 724.60 28,98 Welland 1,378,716.56 107,600.62 1,486,317.18 111,118.71 4,444.75 1 Wellesley 52,562.93 3,628.02 56,190.95 3,868.00 154.72 Wellington 50,852.61 4,599.47 55,452.08 55,452.08 West Lorne 105,627.29 9,126.98 114,754.27 968.66 38.75 Weston 921,462.98 69,112.84 990,575.82 95,851.83 3,834.07 1 Westport 27,255.33 2,636.26 29,891.59 Wheatley 67,516.49 6,527.19 11.04 74,054.72 Whitby 343,906.50 56,443.40 400,349.90 Wiarton 86,145.56 9,200.98 95,346.54 Williamsburg 23,945.84 1,997.33 25,943.17 Winchester 89,562.90 8,806.68 98,369.58	174.17
Waubaushene 22,931.37 2,194.97 25,126.34 724.60 28,98 Welland 1,378,716.56 107,600.62 1,486,317.18 111,118.71 4,444.75 1 Wellesley 52,562.93 3,628.02 56,190.95 3,868.00 154.72 Wellington 50,852.61 4,599.47 55,452.08 55,452.08 West Lorne 105,627.29 9,126.98 114,754.27 968.66 38.75 Weston 921,462.98 69,112.84 990,575.82 95,851.83 3,834.07 1 Westport 27,255.33 2,636.26 29,891.59 Wheatley 67,516.49 6,527.19 11.04 74,054.72 Whitby 343,906.50 56,443.40 400,349.90 Wiarton 86,145.56 9,200.98 95,346.54 Williamsburg 23,945.84 1,997.33 25,943.17 Winchester 89,562.90 8,806.68 98,369.58	17.89
Wellesley 52,562,93 3,628.02 56,190.95 3,868.00 154.72 Wellington 50,852.61 4,599.47 55,452.08 West Lorne 105,627.29 9,126.98 114,754.27 968.66 38.75 Weston 921,462.98 69,112.84 990,575.82 95,851.83 3,834.07 1 Westport 27,255.33 2,636.26 29,801.59 Wheatley 67,516.49 6,527.19 11.04 74,054.72 Whitby 343,906.50 56,443.40 400,349.90 Wiarton 86,145.56 9,200.98 95,346.54 Williamsburg 23,945.84 1,997.33 25,943.17 Winchester 89,562.90 8,806.68 98,369.58 Windermere 12,287.02 1,011.47 13,298.49	7.63
West Lorne 105,627.29 9,126.98 114,754.27 968.66 38.75 Weston 921,462.98 69,112.84 990,575.82 95,851.83 3,834.07 1 Westport 27,255.33 2,636.26 29,891.59 20,991.59 20,9	170.08
West Lorne. 105,627.29 9,126,98 114,754.27 968.66 38.75 Weston. 921,462.98 69,112.84 990,575.82 95,851.83 3,834.07 1 Westport. 27,255.33 2,636.26 29,891.59 20,991.59 20,991.59 2	40.73
Weston 921,462.98 69,112.84 990,575.82 95,851.83 3,834.07 1 Westport 27,255.33 2,636.26 29,891.59 20,941.79 20,941.79 20,943.17	
Weston 921,462.98 69,112.84 990,575.82 95,851.83 3,834.07 1 Westport 27,255.33 2,636.26 29,891.59 20,941.79 20,941.79 20,943.17	40.00
Westport 27,255,33 2,636,26 29,891,59 Wheatley 67,516,49 6,527,19 11,04 74,054,72 Whitby 343,906,50 56,443,40 400,349,90 Wiarton 86,145,56 9,200,98 95,346,54 Williamsburg 23,945,84 1,997,33 25,943,17 Winchester 89,562,90 8,806,68 98,369,58 Windermere 12,287,02 1,011,47 13,298,49	10.20
Wheatley 67,516.49 6,527.19 11.04 74,054.72 Whitby 343,906.50 56,443.40 400,349.90 Wiarton 86,145.56 9,200.98 95,346.54 Williamsburg 23,945.84 1,997.33 25,943.17 Winchester 89,562.90 8,806.68 98,369.58 Windermere 12,287.02 1,011.47 13,298.49	.009.32
Whitby 343,906.50 56,443.40 400,349.90 Wiarton 86,145.56 9,200.98 95,346.54 Williamsburg 23,945.84 1,997.33 25,943.17 Winchester 89,562.90 8,806.68 98,369.58 Windermere 12,287.02 1,011.47 13,298.49	
Wiarton 86,145.56 9,200.98 95,346.54 Williamsburg 23,945.84 1,997.33 25,943.17 Winchester 89,562.90 8,806.68 98,369.58 Windermere 12,287.02 1,011.47 13,298.49	
Williamsburg 23,945.84 1,997.33 25,943.17 Winchester 89,562.90 8,806.68 98,369.58 Windermere 12,287.02 1,011.47 13,298.49	
Williamsburg 23,945.84 1,997.33 25,943.17 Winchester 89,562.90 8,806.68 98,369.58 Windermere 12,287.02 1,011.47 13,298.49	
Windermere 12,287.02 1,011.47 13,298.49	
Windermere 12,287.02 1,011.47 13,298.49	
Windsor	
1,	527.66
Wingham 176,714.49 16,444.16 193,158.65	
Wingham 176,714.49 16,444.16 193,158.65	50.11
	339.82
Wyoming. 34,733.21 2,948.32 37,681.53 924.03 36.96	9.73
York Twp	
Zurich	19.94
Total—Municipalities 217.481.988.42 20.861.931.31 318.752.53 238.662.672.26 11.667.269.70 466.690.81 122	956 25
	,856.35
Rural Power District 36,725,043.56 4,803,304.81 318,752.53 41,209,595.84	
service buildings and equipment	256.61
	,112.96
(see note)	

Note: The net provision and interest credited during the year consist of the following amounts shown in the statement of sinking fund reserve:

Interest \$ 10,299,780.98

 ment of sinking fund reserve:
 \$ 10,299,780.98

 Interest.
 16,084,460.00

 —indirect.
 237,615.00

\$ 25,987,889.41

NORTHERN ONTARIO

FIXED

Statement Showing Changes during

			Ir
			Changes
Property ·	Balance January 1, 1959	Placed in service	Equipment relocated and reclassified
Power System Hydro-Electric Generating Stations NORTHEASTERN DIVISION Abitibi River	\$	\$	\$
Abitibi Canyon Otter Rapids Mississagi River	19,263,021	1,719,511	
George W. Rayner	18,505,499 	27,286	15,723
	60,941,969	2,258,082	15,723
NORTHWESTERN DIVISION Nipigon River Pine Portage Cameron Falls Alexander Aguasabon River	31,970,670 15,445,926 11,435,311	32 9,336 199	6,321
Aguasabon River Aguasabon	12,667,501	11,324	
Caribou Falls	23,233,035 15,349,227	582,008	• • • • • • • • • • • • • • • • • • • •
Whitedog Falls. Kaministikwia River Silver Falls.	20,915,635	152,318	
Other properties.	11,175,012	16,162,462 145,201	
m =	142,192,317	16,757,846	6,321
Thermal-Electric Generating Stations NORTHEASTERN DIVISION NORTHWESTERN DIVISION Thunder Bay	380,751	6,739	
	380,751	6,739	
Total generating stations	203,515,037	19,022,667	22,044
Transformer Stations Northeastern Division Northwestern Division	22,898,828 9,495,193	1,812,353 892,307	17,210 1,977
Total transformer stations.:	32,394,021	2,704,660	19,187
Transmission Lines Northeastern Division Northwestern Division	33,308,804 29,504,196	478,142 1,599,364	7,013 14,475
Total transmission lines	62,813,000	2,077,506	7,462
LOCAL SYSTEMS Northeastern Division Northwestern Division	3,370,557 595,394	424,221 84,125	90,192 64,397
Total local systems	3,965,951	508,346	25,795
Communications	3,704,463	352,206	6,321
Total power system	306,392,472	24,665,385	21,797

PROPERTIES

ASSETS

Year 1959 and Balances at December 31, 1959

service				
during year				
Sales and retirements	Balance December 31, 1959	Under construction December 31, 1959	Total fixed assets December 31, 1959	Expenditures during 1959
. \$	\$	\$	\$	\$
3,033 	20,979,499 	37,128 9,978,494 5,418 10,693,360 1,460,436	21,016,627 9,978,494 18,538,203 10,693,360 25,099,765	754,708 6,934,452 14,240 6,955,307 1,507,508
32,715	63,151,613	22,174,836	85,326,449	16,166,215
500 1,700	31,970,202 15,453,562 11,428,791	2,637 189,034 93,334	31,972,839 15,642,596 11,522,125	2,393 188,148 79,044
650	12,678,175	3,838	12,682,013	11,815
424 525	23,814,619 15,348,702	111,745 165,089	23,926,364 15,513,791	644,043 9,682
482	20,762,835	111,745	20,874,580	378,534
37,234	16,162,462 11,282,979	87,757 179,717	16,250,219 11,462,696	4,805,194 189,853
41,515	158,902,327	944,896	159,847,223	5,551,638
	387,490	10,332,465	387,490 10,332,465	6,739 6,523,566
	387,490	10,332,465	10,719,955	6,530,305
74,230	222,441,430	33,452,197	255,893,627	28,248,158
68,259 206,493	24,660,132 10,182,984	386,780 164,496	25,046,912 10,347,480	1,407,676 655,844
274,752	34,843,116	551,276	35,394,392	2,063,520
326,069 248,553	33,467,890 30,840,532	832,356 353,455	34,300,246 31,193,987	951,172 798,987
574,622	64,308,422	1,185,811	65,494,233	1,750,159
70,900 4,112	3,814,070 611,010	77,664 6,255	3,891,734 617,265	348,047 66,542
75,012	4,425,080	83,919	4,508,999	414,589
82,931	3,980,059	176,851	4,156,910	292,239
1,081,547	329,998,107	35,450,054	365,448,161	32,768,665

NORTHERN ONTARIO

FIXED

Statement Showing Changes during

			In
			Changes
Property	Balance January 1, 1959	Placed in service	Equipment relocated and reclassified
Administrative and Service Buildings and Equipment	\$	\$	\$
BUILDINGS OFFICE AND SERVICE EQUIPMENT	1,973,428 681,799	228,620 106,395	
Total administrative and service buildings and equipment	2,655,227	335,015	
Rural Power District	35,953,758	3,223,169	21,797
Total fixed assets	345,001,457	28,223,569	
Changes in Assets	ander Constructi	on during 1959	<u></u>
Under construction at January 1, 1959 Expenditures during 1959			\$ 27,830,288 36,356,795
Less—Placed in service during 1959			\$ 64,187,083 28,223,569
Under construction at December 31, 1959			\$ 35,963,514

PROPERTIES

ASSETS

Year 1959 and Balances at December 31, 1959

ser	vice				
dur	ing year				
,	Sales and retirements	Balance December 31, 1959	Under construction December 31, 1959	Total fixed assets December 31, 1959	Expenditures during 1959
	\$	\$	\$	\$	\$
	2,863 26,835	2,199,185 761,359	202,107	2,401,292 761,359	229,410 106,395
	29,698	2,960,544	202,107	3,162,651	. 335,805
	330,751	38,824,379	311,353	39,135,732	3,252,325
	1,441,996	371,783,030	35,963,514	407,746,544	36,356,795

Summary of Sales and Retirements during 1959

Charged to operations\$	25,257
Charged to frequency standardization	13.328
Charged to accumulated depreciation	1.290.533
Proceeds from sales.	112.878
The state of the s	112,070

\$ 1,441,996

NORTHERN ONTARIO

Accumulated Depreciation, December 31, 1959

	Power System	Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1959 Add: Interest at 3% per annum on accumulated depreciation on plant not fully depre-	\$ 34,549,495	\$ 6,168,100	\$ 550,191	\$ 41,267,786
ciatedProvision in the year	943,135	183,120	8,228	1,134,483
—direct	2,760,623 57	1,040,507	84,667	3,801,130 84,724
contingencies (Note) Salvage recoveries less re- moval costs of assets re-	817,513			817,513
tired	38,049	43,950		81,999
equipmentOther adjustments	10,331 112,822	10,331 1,388		114,210
Deduct:	39,232,025	7,426,734	643,086	47,301,845
Cost of fixed assets retired less proceeds from sales	1,007,831	273,517	9,185	1,290,533
Balances at December 31, 1959	38,224,194	7,153,217	633,901	46,011,312

Note—The transfer of \$817,513 consists of (1) a retroactive adjustment of \$344,513 to reflect revised estimated service lives for older generating stations purchased by the Commission in prior years, and (2) an appropriation of \$473,000 to eliminate a deficiency in the accumulated depreciation on power system facilities arising from revisions of asset lives and changes in life classes made in prior years.

Frequency Standardization Account, December 31, 1959

Balance at debit at January 1, 1959. Expenditures for frequency standardization work completed during year. Less industrial customers' contributions.	\$ 62,205 72	\$,739,640
		62,133
Less portion of cost charged to cost of power for the year	_	3,801,773 218,114
Balance at debit at December 31, 1959	_	3,583,659

Exchange Discount and Premium on Funded Debt, December 31, 1959

	Discount	Premium	Net discount or premium
Exchange discount and premium on funded debt issued in United States funds:	\$	\$	\$
Add discount on \$18,000,000 issued February	164,093	176,489	12,396
1, 1959	547,563	• • • • •	547,563
Balances at December 31, 1959	711,656	176,489	535,167

PROPERTIES

Reserve for Stabilization of Rates and Contingencies, December 31, 1959

	Power System	Rural Power District	Sub-total	Nuclear research	Total
Balances at January 1, 1959	\$ 19,705,536	\$ 308,338	\$ 20,013,874	\$ 422,047	\$ 20,435,921
Interest for year on reserve balances (Note 1)	755,039	12,328	767,367	12,765 94,935	780,132 94,935
debt and sale of investments, net	89,874		89,874		89,874
Deduct:	20,550,449	320,666	20,871,115	529,747	21,400,862
Expenditures during year Withdrawal in the year applied in reduction of cost of power to:				452,781	452,781
—all customers in Northern Ontario Properties —cost-contract municipalities	903,685		903,685		903,685
formerly in the Thunder Bay System	297,324		297,324		297,324
Transfer to accumulated depreciation (Note 2)	817,513		817,513		817,513
Balances at December 31, 1959 (Note 3)		320,666	18,852,593	76,966	18,929,559

Note 1—Interest was calculated at a rate approximating the actual earnings on the investments held for the reserves.

Note 3—The balance of \$18,531,927 at the credit of the Power System reserve at December 31, 1959 includes an amount of \$2,111,558 held specifically for the benefit of those municipalities which were supplied with power at cost in the former Thunder Bay System at January 1, 1952, the date on which that system was merged with the Northern Ontario Properties.

Sinking Fund Reserve, December 31, 1959

	Province of Ontario			Municipalities supplied with power at cost	
	40-year basis	Prepaid sinking funds	Total	40-year basis	Total
Balances at January 1, 1959 Add:	\$ 32,742,672	\$ 13,104,234	\$ 45,846,906	\$ 12,375,490	\$ 58,222,396
Interest at 4% per annum on reserve balances Provision in the year —direct	1,309,707 3,175,069	524,169	3,175,069	405,136	2,328,895 3,580,205
—indirect Deduct credits resulting from	37,250,491			13,275,645	23,043
prepaid and matured sinking funds (see note): InterestPrincipal	15,513 4,084	524,169 178,037	539,682 182,121		539,682 182,121
	19,597	702,206	721,803	,	721,803
Balances at December 31, 1959	37,230,894	12,926,197	50,157,091	13,275,645	63,432,736

Note: The matured sinking funds at January 1, 1959 amounted to \$387,826.

Note 2—The transfer of \$\$17,513 consists of (1) a retroactive adjustment of \$344,513 to reflect revised estimated service lives for older generating stations purchased by the Commission in prior years, and (2) an appropriation of \$473,000 to eliminate a deficiency in the accumulated depreciation on power system facilities arising from revisions of asset lives and changes in life classes made in prior years.

NORTHERN ONTARIO STATEMENT OF THE ALLOCATION

for the Year

	supplied (princi	Power and energy supplied during year (principal bases of cost allocation)		Cos		
Municipalities supplied with power at cost	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation (Note 2)	Provision for nuclear research (Note 3)	
Atikokan Twp Cache Bay. Capreol. Cochrane. Dryden.	kw 3,736.6 257.0 544.1 882.7 2,058.1	megawatt hours 21,398.0 634.7 2,723.2 4,701.8 12,921.0	\$ 170,024.65 9,174.94 22,356.17 30,204.81 96,461.81	\$	\$ 377.63 18.63 50.60 84.38 217.62	
Fort William Kapuskasing Larder Lake Twp. Latchford McGarry	32,056.7 1,498.7 278.6 38.3 310.0	204,216.0 6,908.6 1,441.2 201.6 1,431.8	1,227,738.46 53,695.92 12,404.95 1,672.49 12,284.56		3,414.65 134.58 26.28 3.64 27.86	
Nipigon Twp North Bay. Port Arthur. Red Rock. Schreiber Twp	1,502.9 5,761.1 37,687.4 797.1 1,082.2	8,152.0 30,834.5 198,068.8 4,111.2 5,652.0	58,910.69 217,250.29 1,359,458.26 28,935.59 37,113.79		148.03 551.91 3,658.31 76.71 104.76	
Sturgeon Falls. Terrace Bay. Thessalon.	872.0 1,204.7 226.1	4,409.7 7,105.6 1,195.0	34,530.03 42,122.65 9,866.18		81.45 123.50 21.56	
Total—Municipalities Province of Ontario: Rural Power District Other customers Secondary customers (Note 1)	64,263.3 748,628.2	344,454.3 4,885,867.2 544,889.3	6,749,412.22 30,223,027.52	31,425.65 374,314.10	6,188.67 79,624.32	
Total—Province of Ontario GRAND TOTAL	812,891.5 903,685.8	5,775,210.8	36,972,439.74 40,396,645,98	405,739.75	85,812.99 94,935.09	

Notes on Summary of the Allocation of the Cost of Primary Power

NORTHERN ONTARIO PROPERTIES

1. The total of \$40,396,645 shown under the heading "Power purchased, operating costs, and fixed charges" includes the following items of cost shown in the Statement of Operations:

Cost of power purchased	572.723
Operation, maintenance and administrative expenses	15 219 846
Interest	13 118 976
Depreciation	3,801,130
Shiking fund provision	3,580,205
interchange of power with Southern Untario System (1,518,501 megawatt-	# 020 044
hours)	5,028,044
Sale of secondary energy	- 924,279

\$ 40,396,645

The method used in 1958 of allocating the cost of power supplied to each customer was followed in 1959 except that high-voltage transmission costs in the Thunder Bay District of the Northwestern Division were allocated in total on a demand basis in 1959, whereas in 1958 these costs were segregated between mining and other areas and allocated on a kilowatt-mile basis.

PROPERTIES

OF THE COST OF PRIMARY POWER

Ended December 31, 1959

rimary power					Annual i a kilowa	
Credit resulting from prepaid and , matured sinking fund	Withdrawal from stabilization of rates reserve (Note 4)	Total cost of primary power	Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Interim	Actual
\$	\$	\$	\$	\$	\$	\$
	3,736.60	166,665.68	158,206.42	8,459,26	42.34	44.60
	257.00	8,936.57	10,794.00	1,857.43	42.00	34.77
	544,10	21,862.67	23,706.08	1,843.41	43.57	40.18
	882.70	29,406.49	32,661.44	3,254.95	37.00	33.31
	2,058.10	94,621.33	91,498.13	3,123.20	44.46	45.98
	160,283.50	1,070,869.61	1,073,898.35	3,028.74	33.50	33,41
	1,498.70	52,331.80	53,952.00	1,620.20	36.00	34.92
• • • • • • • • • • • •	278.60	12,152.63	12,260.23	107.60	44.00	43.62
	38.30	1,637.83	1,646.19	8.36	43.00	42.76
• • • • • • • • • • • • • •	310.00	12,002.42	13,327.85	1,325.43	43.00	38.72
	7,514.50	51,544.22	51,849.20	304.98	34.50	34.30
	5,761.10	212,041.10	221,800.42	9,759.32	38.50	36.81
	188,437.00	1,174,679.57	1,187,153.12	12,473.55	31.50	31.17
	3,985.50	25,026.80	25,586.39	559.59	32.10	31.40
• • • • • • • • • • • • • • • • • • • •	5,411.00	31,807.55	35,712.90	3,905.35	33.00	29.39
	872.00	33,739.48	35,750.97	2,011.49	41.00	38.69
	6,023.50	36,222.65	39,755.67	3,533.02	33.00	30.07
	226.10	9,661.64	10,511.34	849.70	46.50	42.73
	388,118.30	3,045,210.04	3,080,070.70	34,860.66		
		(noo n(o o o	6 050 506 11	252 025 (2		
724 002 22	64,263.30	6,722,763.24	6,350,726.11	372,037,13		
721,803.28	748,628.20	29,206,534.46	29,284,720.79	78,186.33		
721,803.28	812,891.50	35,929,297.70	35,635,446.90	293,850.80		
721,803,28	1,201,009.80	38,974,507.74	38,715,517.60	258,990.14		

2. Frequency standardization costs are shown in the Statement of Operations as follows:

Interest		187,625 218,114
	Ψ	405,739

This represents a charge of 50 cents per kilowatt on the average monthly peak load supplied to all customers served on behalf of the Province of Ontario.

- 3. The provision of \$94,935 for nuclear research was charged to all customers in the Northern Ontario Properties on the basis of 50 per cent on the quantity of energy supplied and 50 per cent on average monthly peak loads. It represents the Northern Ontario Properties' share of a total provision of \$500,000 charged proportionally on the basis of the average monthly peak loads in the Southern Ontario System and the Northern Ontario Properties.
- 4. The withdrawal of \$1,201,009 from the stabilization of rates reserve is equivalent to \$1 per kilowatt on the average monthly peak load of all customers and \$4 per kilowatt on the average monthly peak load of cost-contract municipalities formerly served by the Thunder Bay System. The amount represented by the latter was charged to that portion of the reserve held specifically for those municipalities.

NORTHERN ONTARIO PROPERTIES

STATEMENT OF SINKING FUND EQUITY

as at December 31, 1959

Net amount paid as part of cost of power by each municipality and other sinking funds provided out of revenues of the system and interest allowed

		interest allowed	
Municipality	Balance January 1, 1959	Net provision and interest credited during year	Balance December 31, 1959
A	\$	\$	\$
Atikokan Twp	36,515.94	22,013.68	58,529.62
Cache Bay		652.35	652.35
Capreol		1,553.64	1,553.64
Cochrane		1,933.95	1,933.95
Dryden	47,233.08	13,543.42	60,776.50
Fort William	4,225,626.68	324,594.38	4,550,221.06
Kapuskasing		3,556.04	3,556.04
Larder Lake Twp		878.33	878.33
Latchford		112.52	112.52
McGarry		848.50	848.50
Nipigon Twp	79,593.61	10,422.21	90,015.82
North Bay		14,385.41	14,385.41
Port Arthur	7,860,431.49	484,615.32	8,345,046.81
Red Rock	29,074.19	4,495.44	33,569.63
Schreiber Twp	35,917.36	5,903.71	41,821.07
Sturgeon Falls		2,338.16	2,338.16
Terrace Bay	61,097.52	7,606.64	68,704.16
Thessalon		702.30	702.30
Total—Municipalities	12,375,489.87	900,156.00	13,275,645.87
Province of Ontario	45,846,905.84	4,310,184.55	50,157,090.39
GRAND TOTAL	58,222,395.71	5,210,340.55 (see note)	63,432,736.26

Note: The net provision and interest credited during the year consist of the following amounts shown in the statement of the sinking fund reserve:

Interest	. \$	2,328,895.83
Provision—direct		3,580,225.00
—indirect		23,023.00

Less credits resulting from prepaid and matured sinking fund.... \$ 5,932,143.83 721,803.28

\$ 5,210,340.55

APPENDIX III—RURAL

POWER is delivered in wholesale quantities by the Commission to 102 rural operating areas in the Rural Power District. Within the areas, retail customers are supplied under the following six classes of service: farm, hamlet residential, rural residential, commercial, summer, and industrial power. The description of these classes of service and the rates applicable to them at December 31, 1959 are included in this appendix.

Description of Main Classes of Service

Farm service means service rendered to a property used for the production of food or industrial crops. It provides for the electrical supply of all farm buildings and equipment located on a farm and used for farm purposes, including equipment required for processing the products of that farm. Service may be supplied under one farm contract to all dwellings or separate domestic establishments located on the farm and occupied by persons engaged in its operation. Additional dwellings or domestic establishments located on a farm property and occupied by persons otherwise engaged are classed as residential service. Small properties of thirty acres and less are classified as residential service unless special circumstances warrant a classification as farm service.

Hamlet residential service is supplied to all domestic establishments in built-up areas where there are six or more customers in any quarter-mile section of road or street.

Rural residential service is supplied to isolated domestic establishments served as part of a rural operating area.

Commercial service applies to a wide variety of business or community establishments such as hotels, offices, stores, churches, schools, or small manufacturing and processing plants. Sign and display lighting is included.

Summer service is applicable to residential properties normally used only during the summer months.

Industrial power service is 3-phase service to such power users as creameries, cheese factories, chopping mills, and other industrial establishments.

Rural Power District

INVESTMENT IN FIXED ASSETS AT COST AS AT DECEMBER 31, 1959

System and Region	1958	1959	Net increase
Southern Ontario System	\$. \$	49
Western	37,503,542	39,123,953	1,620,411
West Central	30,663,985	31,924,188	1,260,203
Niagara	9,777,200	10,469,739	692,539
Toronto	14,139,167	15,093,778	954,611
Georgian Bay	43,787,932	46,588,423	2,800,491
East Central	35,962,253	38,540,378	2,578,125
Eastern	30,838,513	33,067,643	2,229,130
Total	202,672,592	214,808,102	12,135,510
Northern Ontario Properties			
Northeastern	25,674,525	27,765,133	2,090,608
Northwestern	10,561,430	11,370,599	809,169
Total	36,235,955	39,135,732	2,899,777
Total—All systems	238,908,547	253,943,834	15,035,287
Provincial assistance	113,538,494	114,862,748	1,324,254

Rural Rate Structure

Rural rates in effect throughout the Province are given in the accompanying tables. They are quoted on a monthly basis, except for summer service, which is quoted on an annual basis. Each contract within each class of service has a rating, and the energy used is billed on the basis of a three-step energy rate, except hamlet residential service which has a four-step energy rate, the bill being subject to a monthly minimum, or with respect to summer service, to an annual fixed charge. The number of kilowatt-hours billed at the first and second energy rates and the amount of the minimum monthly bill, or the annual fixed charge, depend on the contract rating. For all contracts with a demand rating (FD, CD, and Industrial Power) these aspects of the bill are based on measured demand and are subject to minima related to demands established in previous billing periods.

For industrial power service there are eight different schedules. These are numbered in the following table. The alphabetical list of the 102 rural operating areas on page 174 indicates the schedule number of the power service rate applicable to each area, as at December 31, 1959.

Rural Power District RATES AND TYPICAL BILLS FOR ELECTRICAL SERVICE as at December 31, 1959

Rates are quoted on a monthly basis for all services except summer service, which are quoted on an annual basis. All are subject to 10% prompt payment discount.

				ars per month	m bill	Net monthly bill for			
Class and rating	4.5¢	2.6€	1.1¢	1.5¢	Minimum b per month (gross)	100 kwh	300 kwh	500 kwh	
Farm					\$	s	\$	\$	
F35	60	180		All additional	2.25	3.37	7.45	10.15	
F50	100	300		ш	3.75	4.05	8.73	12.42	
FD	10*	30*		и	0.40*		8.73†	12.42†	
Hamlet Residential									
H20 (see note)	60	80	500	All additional	1.67	3.37	5.89	7.87	
Н35	60	180	500	и	2.25	3.37	7.24	9.22	
Rural Residential									
R20 (see note)	60	80		All additional	1.67	3.37	6.46	9.16	
R35	60	180		и	2.25	3.37	7.45	10.15	
Commercial									
C20 (see note)	60	120		All additional	1.50	3.37	6.86	9,56	
C35	90	180		и	2.25	3.88	8.26	10.96	
C50	150	300		"	3.75	4.05	9.58	13.77	
CD	15*	30*		4	0.40*		9.58†	13.77†	
Summer									
S20 (see note)	150\$	450§		All additional	16.67‡	4.05 \$	9.58§	14.26§	
S35	225§	675§		и	22,221	4.05 §	10.87§	15.55§	

[§] On annual basis

Note—The H20, R20, C20, and S20 rates were discontinued as of January 1, 1959 except for existing 2-wire services at that date.

Industrial Power

				Energy rate per kwh for		Net monthly bill for use of 1 kw of demand			
Schedule	No. of kwh in first block	No. of kwh in second block	Demand rate per kw	First block of kwh	Second block of kwh	All additional kwh	100 hours	200 hours	300 hours
			\$	é	é	é	\$	\$	\$
1	50*	50*	1.35	2.3	1.5	0.33	2.92	3.22	3.52
2	50*	50*	1.35	2.6	1.7	0.33	3.15	3.45	3.74
3	50*	50*	1.35	2.8	1.8	0.33	3.28	3.58	3.88
4	50*	50*	1.35	3.1	2.0	0.33	3.51	3.81	4.10
5	50*	50*	1.35	3.4	2.2	0.33	3.73	4.03	4.33
6,	50*	50*	1.35	3.7	2.4	0.33	3.96	4,26	4.55
7	50*	50*	1.35	4.0	2.6	0.33	4.18	4.48	4.78
8	50*	50*	1.35	4.6	3.0	0.33	4.63	4.93	5.23

^{*} Per kw of demand

^{*}Per kw of demand

[‡] Gross annual fixed charge

[†] Calculated on basis of minimum demand of 10 kw

Rural Operating Areas

and

Industrial Power Service Schedules in Effect

Rural operating area	Schedule	Rural operating area	Schedule	Rural operating area	Schedule
Algoma Alliston Arnprior Aylmer Bala	8 5 4 5 4	Harrow Huntsville Ingersoll Kapuskasing Kenora	6 5 4 6 8	Peterborough	1 5 4 5 4
Bancroft Barrie Beamsville Belleville Blenheim	7 5 4 4 5	Kingston Kingsville Kirkland Lake Kitchener Lakefield	4 5 6 4 4	Ridgetown St. Catharines St. Thomas Sarnia Shelburne	6 3 5 5 5
Bowmanville	4 4 4 4	Lancaster	4 4 4 5 8	Simcoe	4 8 4 2 4
Cannington Cayuga Chatham Clinton Cobden	5 6 4 5 4	Markdale	4 4 6 6 4	Stratford. Strathroy. Sudbury. Sutton. Terrace Bay.	4 5 6 5 7
Cobourg	4 4 5 8 4	Minden	6 5 4 6 6	Tillsonburg Tweed Uxbridge Vankleek Hill Walkerton	4 5 5 4 5
Dunnville Elmira Essex Exeter Fenelon Falls	5 4 6 5 5	Norwood Oil Springs Orangeville Orillia Oshawa	5 6 6 3 4	Wallaceburg	5 6 1 6 4
Forest Fort Frances Frankford Geraldton Guelph	6 8 4 8 4	Ottawa	2 5 5 5 4	Wingham	5 5 4

Rural Power District MILES OF LINE, NUMBER OF CUSTOMERS as at December 31, 1959

				Nι	ımber of	custome	rs		<u> </u>
Rural operating areas by regions	Miles of primary line		Resid	lential		Sum	mer		
		Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
Southern Ontario System									
WESTERN Aylmer Blenheim Chatham Dorchester Essex	335.64 141.72 310.50 206.98 380.82	1,595 656 1,361 848 1,818	201 142 341 172 243	923 793	234 111 224 173 303	10 14 1	136 252 2 636	10 10 16	3,168 1,607 2,859 2,004 5,168
ExeterForestHarrowIngersoll.Kingsville.	273.26 338.94 249.02 301.60 291.26	1,209 1,404 1,387 1,074 1,851	53 80 113 102 100	230 1,225 422	140 140 181 112 310	11 45 23 3 60	490 1,010 1,479 31 1,280	13 6 26 5 46	2,252 2,915 4,434 1,749 5,267
London	402.49 378.97 395.18 361.30 369.74	1,171 1,441 1,628 1,479 1,417	202 71 182 65 159	159 421 249	960 114 240 203 199	3	33 388 638	151 7 19 26 11	16,705 1,792 2,881 2,022 2,928
St. Thomas Sarnia Strathroy Tillsonburg Wallaceburg	314.27 287.13 518.80 462.68 465.63	1,228 1,198 1,960 1,953 1,801	236 144 236 377 310	2,572 690 1,098	267 350 273 328 343	8	13 500 363	12 15 10 28 21	3,699 4,787 3,169 3,784 4,153
West Lorne Woodstock	500.59 226.89	1,820 891	104 73			· · · · · · · i	64	14 13	2,479 1,932
Total	7,513.41	31,190	3,706	33,237	5,591	217	7,315	498	81,754
west central Brantford Cayuga Clinton Dundas Elmira	556.30 529.19 666.72 385.03 495.76	2,223 1,977 2,565 1,784 1,670	450 271 126 280 200	818 830 4,186	279 347 354	4 21 6	13 1,517 820 3 264	26 10 38	3,894 4,909 4,704 6,645 3,621
Guelph	391.95 482.99 622.40 554.12 798.04	1,350 1,686 2,636 2,417 3,446	272 285 103 103 875	2,336 609 580	427 328 250	1 2	16 176 15 1,608	45 13 16	3,315 4,956 3,706 3,366 8,853
Stoney Creek Stratford	313.11 302.67	1,105 1,286	220 114		564 191		138	61 12	8,584 2,226
Total	6,098.28	24,145	3,299	22,289	4,099	95	4,570	282	58,779

Appendix III — Rural

Rural Power District MILES OF LINE, NUMBER OF CUSTOMERS as at December 31, 1959

	Miles of			Nı	ımber of	custome	ers		
Rural operating areas by regions	primary line		Resid	lential		Sun	nmer		
		Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
SOUTHERN ONTARIO SYSTEM —Continued NIAGARA Beamsville Dunnville St. Catharines Welland	374.31 278.45 296.51 471.88	1,085 1,505	257 251 203 482	696	397 250 712 823	45 5 31	76 1,214 247 809	45 17 83 93	5,166 3,558 12,760 11,182
Total	1,421.15	6,066	1,193	20,560	2,182	81	2,346	238	32,666
TORONTO Brampton Markham Richmond Hill Sutton Woodbridge	549.41 291.92 309.19 349.91 409.02	1,779 984 978 1,009 1,286	782 415 262 285 622	2,235 4,193 7,174 2,885 3,018	408 449 658 365 560	17 30 3 102	182 501 195 3,256 85	67 31 80 19 79	5,470 6,603 9,350 7,921 5,650
Total	1,909.45	6,036	2,366	19,505	2,440	152	4,219	276	34,994
GEORGIAN BAY Alliston Bala Barrie Bracebridge Cannington	494.25 242.13 511.13 495.66 490.23	1,958 9 1,452 312 1,210	280 159 503 450 260	794 557 2,481 1,007 879	238 102 426 228 241	3 87 81 111 36	32 2,546 3,687 3,282 3,068	14 5 22 4 12	3,319 3,465 8,652 5,394 5,706
Huntsville Markdale Orangeville Orillia Owen Sound	626.22 650.61 520.69 598.80 944.53	654 2,234 1,370 997 2,502	533 178 403 438 325	1,301 720 1,266 2,287 1,536	311 309 340 467 526	156 9 8 115 146	2,714 620 470 3,879 3,438	14 7 10 17 13	5,683 4,077 3,867 8,200 8,486
Parry Sound Penetanguishene Shelburne Stayner Uxbridge	459.77 553.88 722.01 365.50 505.16	218 974 2,413 1,183 1,577	441 356 177 136 303	1,033 949 240 1,174 1,012	243 243 233 253 276	123 152 223 21	1,452 5,510 63 3,246 1,515	14 7 3 14	3,524 8,191 3,126 6,218 4,718
Walkerton Wingham	852.50 701.46	3,130 2,637	250 77	770 648	393 334	21 23	754 776	15	5,333 4,503
Total	9,734.53	24,830	5,269	18,654	5,163	1,315	37,052	179	92,462

Rural Power District MILES OF LINE, NUMBER OF CUSTOMERS as at December 31, 1959

		Miles		Nı	ımber of	custome	rs		
Rural operating areas by regions	Miles of primary line		Resid	ential		Sum	mer		
areas by regions	me	Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
SOUTHERN ONTARIO SYSTEM —Concluded EAST CENTRAL Bancroft Belleville Bowmanville Cobourg Fenelon Falls	485.22 215.75 318.90 594.36 537.76	612 792 980 1,677 1,050	278 185 246 461 102	1,256	210 233 225 344 267	50 3 27 71 148	1,383 53 102 1,033 3,529	14 12 15	3,773 2,536 2,573 4,981 5,891
Frankford Kingston Lakefield Minden Napanee	585.12 857.63 438.93 493.65 574.06	1,969 2,052 549 351 1,918	382 529 208 297 281		336 694 185 331 392	28	491 1,579 2,909 3,512 443	1 3	4,497 9,226 4,585 5,946 4,287
NorwoodOshawaPeterboroughPictonTweed	387.17 282.52 663.35 468.18 611.16	932 855 1,799 1,735 1,144	171 354 381 363 548	2,433 1,411	122 334 440 299 327	70 48	1,231 190 1,354 764 917	28 26 14	2,848 4,571 6,503 4,634 3,819
Total	7,513.76	18,415	4,786	22,144	4,739	892	19,490	204	70,670
EASTERN Arnprior	433.10	1,008	187			42	1,386		4,013
Brockville Cobden Delta Lancaster	606.88 1,215.89 466.83 592.51	2,112 2,492 1,019 2,247	483 622 232 475	3,357 597	470 796 260 438	105 52	959 1,302 1,352 363	32 4	6,283 8,706 3,516 4,944
Merrickville Ottawa Perth Plantagenet Vankleek Hill	282.80 766.18 851.49 379.72 220.34	798 2,413 1,905 1,539 928	147 794 366 163 88	8,066 691 782	147 795 361 346 187	11 42	209 405 1,871 94 86	82 7- 19	1,889 12,566 5,243 2,943 1,820
Winchester	829.40	3,320	318	1,618	578	4	65	38	5,941
Total	6,645.14	19,781	3,875	20,849	4,669	315	8,092	283	57,864

Rural Power District

MILES OF LINE, NUMBER OF CUSTOMERS as at December 31, 1959

				Nı	ımber of	custome	rs		
Rural operating areas by regions	Miles of primary		Resid	lential		Sum	ımer		
	line	Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total
Northern Ontario Properties northeastern									
Algoma Kapuskasing Kirkland Lake Manitoulin Matheson	309.82 240.75 109.64 583.61 574.35	387 560 84 853 1,097	191 207 72 253 276	4,118 2,093 204 1,420 1,291	685 289 70 528 279	39 9 16 74 8	276 246 327 812 395	14 2 27	5,770 3,418 775 3,967 3,361
New Liskeard North Bay Sudbury Warren	645.50 807.33 624.97 495.69	1,250 1,092 820 1,006	395 755 898 281	1,017 3,336 11,749 1,232	352 579 1,027 393	39 129 8 103	413 1,296 1,284 796	42 92	3,484 7,229 15,878 3,823
Total	4,391.66	7,149	3,328	26,460	4,202	425	5,845	296	47,705
NORTHWESTERN Dryden Fort Frances. Geraldton Kenora Port Arthur Sioux Lookout. Terrace Bay	296.85 535.66 116.82 263.28 861.91 23.49 25.16	394 931 184 1,761 10	255 292 14 256 881 66	489 507 612 607 2,190 71 526	205 272 205 167 419 15 82	39 41 8 124 13 8	240 89 14 860 1,185 61 12	7 4 16 12 24 1 5	1,629 2,136 869 2,210 6,473 232 627
Total	2,123.17	3,280	1,765	5,002	1,365	234	2,461	69	14,176

SUMMARY—MILES OF LINE, NUMBER OF CUSTOMERS as at December 31, 1959

				Nı	umber of	custome	ers				
System and Region	Miles of primary		Resid	lential		Sum	ımer				
	line	Farm	Rural	Hamlet	Com- mercial	Com- mercial	Other	Power	Total		
Southern Ontario System											
Western	7,513.41 6,098.28 1,421.15 1,909.45 9,734.53 7,513.76 6,645.14	6,066 6,036 24,830 18,415	3,706 3,299 1,193 2,366 5,269 4,786 3,875	22,289 20,560 19,505 18,654 22,144	2,440	217 95 81 152 1,315 892 315	7,315 4,570 2,346 4,219 37,052 19,490 8,092	282 238 276 179	81,754 58,779 32,666 34,994 92,462 70,670 57,864		
Total	40,835.72	130,463	24,494	157,238	28,883	3,067	83,084	1,960	429,189		
Northern Ontario Properties											
Northeastern Northwestern	4,391.66 2,123.17	7,149 3,280	3,328 1,765	26,460 5,002	4,202 1,365	425 234	5,845 2,461	296 69	47,705 14,176		
Total	6,514.83	10,429	5,093	31,462	5,567	659	8,306	365	61,881		
Total—All systems	47,350.55	140,892	29,587	188,700	34,450	3,726	91,390	2,325	491,070		





Rural Electrical Service 1950 - 1959 CUSTOMERS, REVENUE, AND CONSUMPTION, BY CLASSES OF SERVICE

Class of service	Year	Revenue	Consump- tion	Customers	Monthly consump- tion per customer	Average cost per kwh
*Farm	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	\$ 7,441,437.92 8,097,710.92 9,017,321.17 11,053,487.41 12,207,502.58 12,915,852.58 13,671,336.65 14,386,097.14 15,159,553.04 16,122,453.84	kwh 400,311,511 408,001,270 405,813,826 507,669,118 558,217,490 593,811,741 642,704,082 685,873,991 739,105,332 804,044,121	No. 114,725 123,434 129,451 133,522 136,013 138,648 139,289 140,604 140,343 140,892	kwh 263 286 307 322 345 360 385 408 439 477	1.86 1.98 1.94 2.18 2.19 2.18 2.10 2.05 2.01
*Hamlet & Rural Residential	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5,712,108.72 6,380,808.20 7,253,640.00 9,560,018.46 11,194,393.02 12,734,130.77 14,639,910.88 16,174,554.38 17,732,046.03 18,862,773.02	297,210,028 308,065,399 359,033,745 421,976,886 497,941,047 577,738,311 689,671,299 780,555,465 905,276,590 988,315,209	115,464 124,091 133,193 150,627 160,552 177,398 181,113 196,025 207,570 218,287	199 214 233 248 267 285 321 345 374 387	1.92 2.07 2.02 2.27 2.25 2.20 2.12 2.07 1.96 1.91
*Commercial (Including Summer Commercial)		2,083,696.71 2,284,851.74 2,457,032.13 3,385,239.46 3,707,824.28 3,996,936.76 4,444,185.15 4,855,540.79 5,346,040.16 5,764,611.07	112,760,186 114,818,736 125,448,544 148,684,777 165,641,656 186,152,293 210,438,942 233,393,971 259,521,563 282,562,584	17,879 20,110 24,564 28,870 30,403 32,509 33,481 35,179 36,966 38,176	482 504 468 464 466 493 532 564 600 627	1.85 1.99 1.96 2.28 2.24 2.15 2.11 2.09 2.06 2.04
*Summer	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1,376,606.36 1,616,368.92 1,826,359.64 1,833,881.12 2,034,199.00 2,214,360.48 2,478,450.51 2,709,831.47 2,943,051.21 3,170,306.65	32,137,220 36,502,195 40,160,959 34,136,058 38,459,711 40,375,690 45,989,565 50,673,331 55,170,379 60,345,721	43,733 49,913 55,159 57,547 62,183 68,600 74,390 79,792 85,611 91,390	66 65 64 51 54 51 54 55 56 57	4.28 4.43 4.55 5.37 5.29 5.48 5.39 5.35 5.33 5.25
Power	. 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1,429,465.54 1,562,608.29 1,799,924.89 2,147,899.48 2,545,737.21 2,934,852.81 3,402,416.31 3,732,252.41 4,410,317.84 4,612,172.64	87,983,478 87,692,082 102,608,301 121,310,479 148,176,508 171,202,169 207,252,224 225,748,793 278,005,882 287,458,107	1,010 1,058 1,170 1,289 1,466 1,681 1,782 2,011 2,113 2,325	6,433 7,067 7,676 8,222 8,964 9,067 9,975 9,920 11,235 10,795	1.62 1.78 1.75 1.77 1.72 1,71 1.64 1.65 1.59

^{*} In 1959, consumption for flat-rate water-heaters was estimated on the basis of 16.8 hours' daily use instead of 20 hours' daily use as in the past. The data for previous years have been adjusted to the new basis.



APPENDIX IV-LEGISLATIVE

A T the 1959 Session of the Legislative Assembly of the Province of Ontario one Act respecting The Hydro-Electric Power Commission of Ontario was passed. The said Act is reproduced here in full. The short title of the Act is as follows:

The Power Commission Amendment Act, 1959, Chapter 73.

ACT

CHAPTER 73

An Act to amend The Power Commission Act

Assented to March 26th, 1959. Session Prorogued March 26th, 1959.

HER MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1.—(1) Section 45a of The Power Commission Act, as enacted by R.S.O. 1950, e. 281, s. 45a section 5 of The Power Commission Amendment Act, 1952 and amended (1952, c. 77, by section 2 of The Power Commission Amendment Act, 1953 and amended

section 1 of *The Power Commission Amendment Act*, 1958, is further amended by adding thereto the following subsection:

Idem

- (2a) In addition to the amounts payable under subsection 2, the Commission shall pay in each year to any municipality in which are situated generating station buildings or transformer station buildings owned by and vested in the Commission the total amount that all rates except, subject to subsections 3 and 4, rates on business assessment, levied in that municipality for taxation purposes would produce based on an assessed value of such buildings to be determined on the basis of \$2 for each square foot of inside ground floor area of the actual buildings housing the generating, transforming and auxiliary equipment and machinery multiplied by the equalization factor used in that year by the Department of Municipal Affairs.
- R.S.O. 1950, c. 281, s. 45a (2) Subsection 3 of the said section 45a, as re-enacted by section 1 subs. 3 (1958, c. 80. of *The Power Commission Amendment Act*, 1958, is repealed and the s. 1), re-enacted following substituted therefor:

Idem

- (3) The Commission shall also pay the amount that the current rates for business assessment levied on assessment on,
 - (a) lands owned by and vested in the Commission;
 - (b) buildings used exclusively for executive and administrative purposes and owned by and vested in the Commission; and
 - (c) generating station buildings and transformer station buildings owned by and vested in the Commission,

would produce, based on 60 per cent of the assessed value of such land and buildings as calculated and determined under subsections 2 and 2a.

R.S.O. 1950, e. 281, s. 45a (3) The said section 45a is further amended by adding thereto the (1952, c. 77, following subsection: s. 5), s. o. amended

Limitation

(4a) Notwithstanding subsections 2, 2a, 3 and 4, the total amount payable thereunder by the Commission to any municipality in any year shall not exceed 50 per cent of the total of the amounts required for the purposes of the municipality and of all its local boards being raised by the imposition, rating and levying of all rates, assessments and taxation, except local improvement rates, upon rateable property within the municipality in that year.

- (4) Subsection 5 of the said section 45a is amended by inserting R.S.O. 1950, after "2" in the first line "2a", so that the subsection shall read as (1952, c, 77, s, 5), subs. 5, amended
 - (5) The payments received under subsections 2, 2a, 3 and 4 Credit to shall be credited by the municipality to the general fund of general fund the municipality.
- (5) Subsection 6 of the said section 45a is amended by inserting R.S.O. 1950, after "2" in the fourth line "2a", so that the subsection shall read as (1952, c. 77, s. 5), subs. 6, amended
 - (6) The assessments and assessed values referred to in this Valuation section shall be valuations made in each year for the purposes of this section by the Department of Municipal Affairs, and subject to subsections 2, 2a, 3 and 12 the valuations shall be made on the same basis as real property liable for municipal taxation in the municipality.
- (6) Subsection 12 of the said section 45a, as amended by section 2 R.S.O. 1950, of *The Power Commission Amendment Act*, 1953, is further amended (1952, c. 77, by inserting after "2" in the fifth line and in the tenth line respect-subs. 12. amended ively "2a", so that the subsection shall read as follows:
 - (12) In making the valuations referred to in subsection 6, there Exemptions shall be no value included for machinery whether fixed or not nor the foundation on which it rests, works, structures other than buildings referred to in subsection 2, 2a or 4, substructures, superstructures, rails, ties, poles, towers, lines nor any of the things excepted from exemption from taxation by paragraph 17 of section 4 of *The Assessment Act*, nor R.S.O. 1950, other property, works or improvements not referred to in subsection 2, 2a or 4, nor an easement or the right or use of occupation or other interest in land not owned by the Commission.
- 2. This Act shall be deemed to have come into force on the 1st Commenceday of January, 1959.
- 3. This Act may be cited as The Power Commission Amendment Short title Act, 1959.

ORDER IN COUNCIL

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities and corporations mentioned in the list hereunder given were approved by Order in Council.

Towns	Township
CampbellfordJuly 10, 1959 KapuskasingAug. 10, 1959	IgnaceOct. 6, 1959
Sturgeon FallsNov. 27, 1959	Police Village
	AvonmoreJuly 13, 1959
Corpor	ATIONS
Abino Gold Mines Limited	Dec. 22, 1959
Abitibi Power & Paper Company, Limited Atomic Energy of Canada Limited	
Avro Aircraft Limited	
Beaver Wood Fibre Company Limited	
Canada Cement Company, Limited	July 7, 1959
Canadian Broadcasting Corporation	
Canadian Industries Limited	Mar. 12, 1959
Canadian Oil Companies, Limited	Aug. 17, 1959
Capital Concrete Products Limited	June 11, 1959
Coballoy Mines and Refiners Limited	Dec. 3, 1959
Consolidated Denison Mines Limited	Sept. 9, 1959
Corby, H., Distillery Limited	Oct. 6, 1959
Deer Horn Mines Limited	Oct. 6, 1959
Deloro Smelting & Refining Company, Limited	Jan. 22, 1959
Dominion Foundries and Steel, Limited	Jan. 6, 1959
Dominion Foundries and Steel, Limited	Aug. 28, 1959
Dominion Foundries and Steel, Limited	Aug. 28, 1959
Dominion Magnesium Limited	June 11, 1959
Dryden Paper Company, Limited	June 4, 1959
Du Pont Company of Canada (1956) Limited	Mar. 17, 1959
Ford Motor Company of Canada, Limited	Feb. 26, 1959
Her Majesty the Queen in right of Canada, repre	
Her Majesty the Queen in right of Canada, repre	sented by the Minister of
National Defence	Feb. 13, 1959
Her Majesty the Queen in right of the Province of	of Ontario, represented by
the Minister of Public Works for the Province	ce of Ontario Nov. 23, 1959
International Nickel Company of Canada, Limite	ed Feb. 9, 1959
Interprovincial Pipe Line Company	Feb. 18, 1959
Light Alloys Limited	Jan. 14, 1959
Macassa Mines Limited	April 24, 1959
Marmoraton Mining Company, Ltd.	July 10, 1959
Marmoraton Mining Company, Ltd	tario Minnesota Pulp and
Paper Company Limited	
Northern Electric Company, Limited	July 7, 1959

Northspan Uranium Mines Limited	June 1, 1959
Northspan Uranium Mines Limited	June 15, 1959
Ontario Water Resources Commission	Dec. 30, 1959
Orenda Engines Limited	Oct. 6, 1959
Ottawa Valley Crushed Stone Limited	June 1, 1959
Patrick Harrison & Company Limited	Nov. 13, 1959
Pembroke Electric Light Company Limited	Jan. 7, 1959
Pembroke Electric Light Company Limited	July 24, 1959
Port Weller Dry Docks Limited	July 7, 1959
Provincial Paper Limited	Feb. 26, 1959
Robin Hood Flour Mills Limited	July 2, 1959
St. Lawrence Corporation Limited	April 6, 1959
St. Lawrence Seaway Authority	Dec. 30, 1959
Sherbrooke Metallurgical Company Limited	Nov. 20, 1959
Siscoe Metals of Ontario Limited	Oct. 23, 1959
Somerville Limited	May 11, 1959
Stanleigh Uranium Mining Corporation Limited	June 15, 1959
Strathcona Paper Company, Limited	Aug. 6, 1959
Toronto Elevators Limited	Mar. 3, 1959
Trans-Canada Air Lines	May 11, 1959
Trans-Northern Pipe Line Company	Mar. 24, 1959



SUPPLEMENT

MUNICIPAL ELECTRICAL SERVICE

THIS supplementary section on service in the municipal systems brings together statistical information on retail service to customers served by the 354 municipal electrical utilities and the 28 Commission-owned local systems. The number of domestic, commercial, and power service customers so supplied increased by 54,572 during 1959 and at December 31 stood at 1,339,156.

The numbers in the various customer groups that contribute to this total reflect reclassifications of customers being made in conjunction with the introduction of new rate schedules. The purpose of these reclassifications is that certain power customers, for example small processing companies such as dairies and bakeries, shall be classified as commercial service, and that commercial service customers with connected loads of less than 5 kilowatts may be billed under domestic service. The table on page 188 provides some indication of the growth in domestic, commercial, and power service over a 10-year period. The statistical information relative to energy consumption and unit cost for these three main classes of service is reproduced in the graphs on page 189.

The revenues derived from street lighting are based on estimated consumption only (see table on page 116), and the revenue applicable to the municipal utilities is given in the analysis of revenue and expense that follows. In each of the operating statements of the utilities the revenue from street lighting is included in the amount shown for sales of electric energy. It can be derived for any utility by subtracting from the revenue shown in Statement "B" the sum of the revenues for the same utility shown in Statement "D".

MUNICIPAL ELECTRICAL UTILITIES

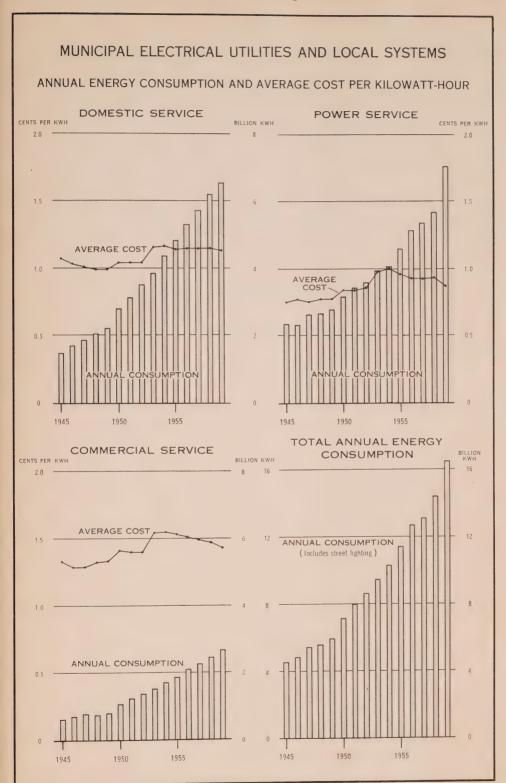
Total revenues of the municipal utilities at \$178,086,883 were 9.6 per cent greater than revenues of \$162,424,745 in 1958. A 16.0 per cent increase in power service revenues is the major contributing factor in this growth, but other classes of service provided increases in revenue—5.9 per cent for domestic service, 6.0 per cent for commercial service, and 9.9 per cent for street lighting, in order of dollar value. These figures in part reflect transfers of certain direct industrial and rural customers of the Commission to the utilities. Revenues from the sales of electric energy as shown in the operating statements of the municipal utilities on page 243 amounted to \$175,686,813. Of this revenue, domestic service accounted for \$72,277,808 (41.1 per cent), commercial service for \$37,194,830 (21.2 per cent), power service for \$60,860,930 (34.6 per cent), and street lighting for \$5,353,245 (3.1 per cent).

Municipal Electrical Utilities and Local Systems CUSTOMERS, REVENUE, AND CONSUMPTION 1950 to 1959

Service	Year	Revenue	Consumption	Customers	Monthly consumption per customer	Average cost per kwh
		\$	kwh	No.	kwh	é
Domestic	1950 1951 1952 1953	29,064,176 32,905,664 36,811,115 44,647,668	2,722,412,309 3,065,257,438 3,411,685,705 3,734,160,562	767,286 800,033 836,802 877,323	296 319 340 355	1.07 1.07 1.08
	1954	50,833,346	4,246,511,375	930,674	380	1.20 1.20
	1955	55,241,247	4,667,789,930	970,829	401	1.18
	1956	61,234,494	5,191,581,628	1,031,482	419	1.18
	1957 1958	65,842,103	5,602,672,756	1,072,868	435	1.18
	1958	69,804,608 73,955,229	6,036,470,489	1,139,061	442	1.16
	1707	10,900,229	0,340,909,291	1,194,878	456	1.13
Commercial	1950	15,231,494	1,075,501,239	107,817	831	1.42
	1951	17,549,402	1,249,185,273	111,154	937	1.40
	1952	19,502,920	1,387,136,211	115,304	1,003	1.41
	1953 1954	23,603,194	1,526,535,177	119,498	1,065	1.55
	1955	26,293,250 28,576,115	1,694,071,712 1,858,974,388	123,884	1,140	1.55
	1956	31,423,691	2,081,200,929	127,913 127,497*	1,211 1,360	1.54 1.51
	1957	33,901,487	2,270,913,902	124,757*	1,517	1.49
	1958	35,968,060	2,445,225,765	122,446*	1,664	1.47
	1959	38,079,501	2,669,327,226	120,733*	1,842	1.43
Power	1950	26,966,954	3,193,783,939	18,788	14,166	0.84
	1951	29,353,071	3,459,742,798	19,370	14,1884	0.85
	1952	31,403,227	3,619,518,306	20,055	15,040	0.87
	1953	38,482,884	3,948,124,809	20,885	15,753	0.98
	1954 1955	40,855,075	4,089,513,923	21,671	15,726	1.00
	1955	44,270,882 47,808,610	4,637,527,118	22,237	17,379	0.96
	1957	50,124,976	5,140,704,025 5,366,245,253	22,809 22,607*	18,782	0.93
	1958	52,741,979	5,651,743,390	23,077	19,781 20,409	0.93 0.93
	1959	61,167,603	7,052,152,034	23,545	24.960	0.93
				,0 20	22,300	0.01

^{*} Decrease in number of customers reflects reclassifications from commercial to domestic and from power to commercial service billing.

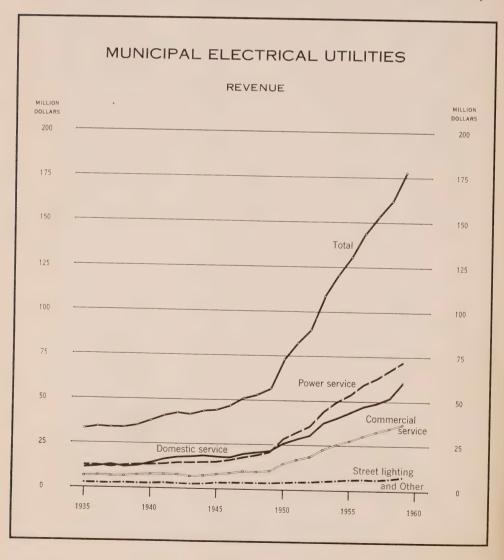
Note: Kwh consumption figures for domestic and commercial services in the above table have been revised to reflect the use of flat-rate water-heaters for a uniform average of 16.8 hours per day, instead of 20 hours as in the past.



Total expenses of the utilities were \$160,581,287, an increase of 11.8 per cent over expenses of \$143,676,564 in 1958. Contributing to this increase in total expense was a 12.7 per cent increase in cost of power generated and purchased, and a 9.7 per cent increase in operation and maintenance expense. Administrative expense and fixed charges, including depreciation, each rose by 9.5 per cent. Since the increase in expense was proportionally greater than the increase in revenue, the net income for the utilities was somewhat lower than in 1958, and at \$17,505,596 was equal to 9.8 per cent of total revenue.

Summary of Financial Position

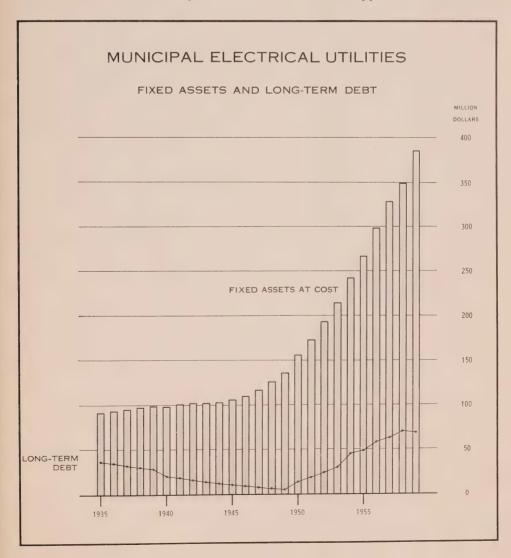
The investment of the municipal utilities in fixed assets increased during 1959 by \$35,713,145 to reach \$385,419,306. Total assets, after deducting accumulated depreciation of \$77,551,575, were \$599,610,980, which includes the \$238,790,589 equity in the Commission's systems acquired by the municipal



utilities operating under cost contracts with the Commission. This equity is the contribution made by the cost-contract municipalities as part of the payment for the cost of power, and is used for the retirement of the Commission's long-term debt. Since most of the municipal utilities close their books before the Commission's calculation of sinking fund for the year is available, their balance sheets show the equity account as it was at the end of the previous rather than the current year. Net debt, that is debentures outstanding less local sinking fund provisions, was \$68,731,000 at December 31, 1959, equivalent to 17.8 per cent of the cost of fixed assets.

Municipal Retail Rates

Under The Power Commission Act the Commission exercises supervisory control over the activities of the municipal electrical utilities, and their rates to ultimate customers are subject to the Commission's approval. These rates



must provide the utility with sufficient revenue to meet the cost of providing service and should also distribute this cost equitably among the customers being served.

Basically revised rate structures were introduced in 1956 following studies carried out over a period of years by the Commission in conjunction with the rates committee of the Association of Municipal Electrical Utilities of Ontario. The need for revision was apparent because of radical changes that have taken place in recent years both in the requirements of customers and in the cost of providing electrical service for them. The adoption of the new rate structures will result in a more uniform application of the basic principles of rate development and will eliminate a great many anomalies and inequities that have arisen because of piecemeal changes over the years. The utilities are now changing over progressively to the new rate structures as revisions in their particular schedules become necessary.

FINANCIAL AND OTHER STATISTICAL TABLES

Four statistical tables complete this municipal service supplement. The first two, designated "Statements A and B", and summarized on page 195 deal with accounting operations of the 354 municipal electrical utilities. These statements are the balance sheets and operating statements of the utilities alphabetically arranged for the Southern Ontario System and the Northern Ontario Properties. The other two statements, designated "Statement C" and "Statement D", give rates and statistics for each of the 354 utilities and 28 Commission-owned local systems. Both statements are alphabetically arranged. The rate schedules in Statement "C" are supplemented by typical monthly bills for selected levels of consumption to facilitate comparison of the cost of service in different municipalities. Statement "D" gives information supplementary to that given in Statement "B" regarding customers, revenue, and consumption, both total and average per customer, as well as average unit costs for the three main classes of service. The population figures given are those recorded in the Municipal Directory for 1960 published by the Department of Municipal Affairs of Ontario.

MUNICIPAL ELECTRICAL SERVICE

Statistical Tables

STATEMENTS A and B-

Financial Statements of the Municipal Electrical Utilities
Consolidated for Years 1950 to 1959
By Municipalities
STATEMENT C—
Rates and Typical Bills for Electrical Service Provided by the
354 Municipal Electrical Utilities and 28 Local Systems
STATEMENT D—
Customers, Revenue, and Consumption in Municipalities Served by
the 354 Municipal Electrical Utilities and 28 Local Systems Page 268

MUNICIPAL ELECTRICAL UTILITIES

Year	1950	1951	1952	1953
Number of municipalities included	321	324	327	332
A. BALANCE SHEETS				
FIXED ASSETS	\$	\$	\$	
Plant and facilities at cost	156,148,064	173,722,457	193,795,886	\$ 214,595,38
Accumulated depreciation	46,310,559	48,087,417	50,985,329	54,282,57
Net fixed assets	109,837,505	125,635,040	142,810,557	160,312,81
Cash on hand and in bank	2,807,734	3,276,779	4,667,729	4,884,130
Investment in government securities	19,706,945	16,291,593	11,542,720	10,716,659
Accounts receivable	6,922,076	7,727,033	7,386,628	10,298,699
Total current assetsOTHER ASSETS	29,436,755	27,295,405	23,597,077	25,899,494
Inventory of stores	5,114,209	7,514,369	8,001,403	7,527,844
Sinking fund on local debentures	592,491	613,435	388,410	410,806
Miscellaneous	1,685,128	1,636,237	1,889,669	2,393,860
Total other assets	7,391,828	9,764,041	10,279,482	10,332,510
Equity in Ontario Hydro Systems	108,475,000	118,269,171	128,655,935	140,068,857
	255,141,090	280,963,657	305,343,051	336,613,672
LIABILITIES				
Debentures outstanding	14,069,133	18,889,520	24,159,239	20 927 722
Accounts payable	7,377,031	9,738,476	10,375,202	29,827,723 10,943,035
Other	1,489,029	1,612,914	1,762,833	2,224,181
Total liabilities	22,935,193	30,240,910	36,297,274	42,994,939
Equity in Ontario Hydro Systems	108,475,000	118,269,171	128,655,935	140 060 057
Other	4,314,186	5,628,317	8,008,752	140,068,857 8,153,001
Total reserves	112,789,186	123,897,488	136,664,687	148,221,858
Debentures redeemed	56,534,878	59,434,312	60,260,350	61,417,714
Accumulated net income invested in	592,491	613,435	388,410	410,806
plant or held as working funds Frequency standardization expense	62,522,125	67,511,315	72,374,288	83,934,775
charged this year	232,783	733,803	641,958	366,420
Total capital	119,416,711	126,825,259	132,381,090	145,396,875
	255,141,090	280,963,657	305,343,051	336,613,672
3. OPERATING STATEMENTS				
REVENUE				
Sales of electric energy	72,091,026	80,964,214	88,744,441	107,997,010
Other	1,432,506	1,347,467	1,314,598	1,257,311
Total revenue	73,523,532	82,311,681	90,059,039	109,254,321
XPENSE				
Power purchased	46,400,041	50,854,323	55,583,501	60 750 633
Local generation	263,958	290,579	322,179	69,750,630
Operation and maintenance	7,889,233	8,886,314	9,918,638	319,744 10,674,897
Administration	6,153,794	7,283,472	7,645,806	8,236,239
	1,478,056	1,524,931	1,981,386	2,400,468
Fixed charges—interest and principal.	4,076,474	4,717,497	5,293,509	5,832,594
—depreciation			71,211	147,083
—depreciation —other	1,769,378	87,225	71,211	220,000
—depreciation —other Total expense	1,769,378 68,030,934	73,644,341	80,816,230	97,361,655
—depreciation —other				

CONSOLIDATED FINANCIAL STATEMENTS 1950-1959

1954 1955 1956 1957 1958 1959 338 338 343 350 351 354 354 354 354 354 354 354 354 354 354						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1954	1955	1956	1957	1958	1959
243,555,700 267,090,752 298,832,207 327,035,074 349,706,161 385,419,306 58,973,786 62,413,111 66,539,420 68,975,083 72,673,866 77,551,575 184,551,914 204,677,641 232,292,787 258,950,891 277,032,295 307,867,731 7,376,880 9,277,807 9,838,536 10,819,896 10,769,037 10,400,010 10,561,137 17,392,469 15,512,896 14,174,408 13,333,906 15,560,183 10,695,799 9,939,403 12,776,466 12,573,922 13,911,267 13,463,791 34,433,805 36,609,679 38,147,898 37,568,226 38,14,210 39,423,984 7,413,229 7,900,466 9,681,858 9,579,584 17,237,653 9,818,1215 384,544 383,751 200,682 561,622 1,033,436 1,726,182 384,544 383,751 200,682 561,622 1,033,436 1,726,182 11,262,480 10,607,525 12,371,724 12,035,788 20,485,481 13,526,576 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,889 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 445,645,051 49,776,907 58,528,557 63,315,360 69,363,792 70,456,844 11,000,473 10,574,522 11,033,156 11,226,095 10,105,465 10,589,995 10,574,266 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 183,262,708 78,674,975,995,60 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 56,656,503 11,026,65 13,839,995 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 10,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 64,888,672 69,383,990 72,087,556 75,021,200 6,565,031 10,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,907 10,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 64,888,672 69,383,990 72,087,556 75,021,200 77,881,620 383,454 114,727,112 132,983,134 152,057,614 170,771,551 190,444,985 93,507,307 11,500,584 11,457,199 1,554,347 1550,224 17,23,986 24,000,675 11,527,209 11,534,349 153,435,888 162,424,745 199,648,383 114,477,112 132,983,134 152,057,614 170,771,551 190,444,985 93,997,500 93,96,005 11,155,347 11,551,340 11,457,199 1,554,347 11,550,224 17,534,360 11,545,361 11,	338	343	350	351	354	354
243.555.700 267.090.752 298.83.207 327.925.974 349.706.161 385.419.300 58.973.786 62.413.111 66.539.420 68.975.083 72.673.866 77.551.575 18.4.551.014 204.677.641 223.292.787 258.950.891 277.032.295 307.867.731 7.376.869 9.277.807 9.858.536 10.819.896 10.769.037 10.400.010 16.361.137 17.392.469 15.512.896 14.174.408 13.333.906 15.560.183 10.695.799 9.939.403 12.776.466 12.573.922 13.911.267 13.463.791 34.433.805 36.609.679 38.147.898 37.568.226 38.014.210 39.423.94 14.222 7.900.466 9.681.858 9.579.584 17.237.653 9.381.215 383.454 383.751 290.682 561.622 1.033.436 1.726.182 383.454 383.751 290.682 561.622 1.033.436 1.726.182 383.454 10.007.525 12.371.724 12.035.788 20.485.841 13.526.76 11.262.480 10.007.525 12.371.724 12.035.788 20.485.841 13.528.676 152.461.822 167.250.921 183.262.708 200.293.236 218.736.441 238.790.898 382.710.021 419.145.766 466.075.117 508.848.141 554.268.427 599.610.980 45.645.051 49.776.907 58.528.557 63.315.360 69.363.792 70.456.844 11.090.473 10.574.522 11.633.156 11.226.005 10.105.465 10.589.995 10.579.266 63.844.575 74.071.989 78.749.502 \$5.644.457 87.611.870 152.461.822 167.250.921 183.262.708 200.293.236 218.736.441 238.790.589 59.579.266 63.844.575 74.071.989 78.749.502 \$5.644.457 87.611.870 152.461.822 167.250.921 183.262.708 200.293.236 218.736.441 238.790.589 8.095.705 7.765.477 6.948.236 5.655.849 3.507.375 2.864.918 10.557.527 175.016.398 190.210.944 205.952.085 222.243.816 241.655.507 64.210.220 66.485.672 69.338.990 72.087.556 75.021.200 77.881.620 383.454 383.454 13.29.83.134 152.057.614 170.7871.551 190.444.985 98.687.493 11.47.7112 132.983.134 152.057.614 170.7871.551 190.444.985 98.687.493 11.47.7712 132.983.134 152.057.614 170.7871.551 190.444.985 707.939 1.314.742 820.622 560.238 546.033 290.816 11.527.328 180.284.793 201.792.184 224.146.554 246.380.154 270.343.00 11.527.209 1.554.347 1.554.349 1.554.349 1.554.340 1.554.340 11.951.0834 1.959.94 1.355.347 1.550.224 1.733.986 2.400.075 11.05.854.11 1.31.267.497 1						
243,525,700 267,090,752 298,832,207 327,925,074 349,706,161 385,419,306 58,973,786 62,413,111 66,539,420 68,975,083 72,673,866 77,551,575 184,551,114 204,677,641 223,202,787 258,950,891 277,032,205 307,867,731 7,376,869 9,277,807 9,858,536 10,819,896 10,769,037 10,400,010 10,695,139 9,903,403 12,776,466 12,573,922 13,911,267 13,463,791 34,433,805 36,609,679 38,147,898 37,568,226 38,014,210 39,423,984 7,413,229 7,900,466 9,681,858 9,579,584 17,237,653 9,381,215 3,465,797 2,323,308 2,399,184 1,894,582 2,144,392 2,421,279 11,262,480 10,007,525 12,371,724 12,035,788 20,485,481 13,526,576 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 45,645,051 49,776,907 11,090,473 10,574,522 11,633,156 11,226,095 10,105,465 10,589,995 2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 28,437,42 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 15,2461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 5,579,266 63,844,575 74,071,989 78,749,502 \$5,644,457 87,611,870 6,948,236 5,658,849 3,507,375 2,864,918 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 228,790,589 383,454 338,751 209,682 561,622 10,33,436 17,261,829 8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 10,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 6,488,672 69,338,909 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 10,33,436 1,726,149 11,510,834 14,477,112 132,983,134 152,057,614 170,871,551 190,444,985 383,751 290,682 561,622 10,33,436 1,726,149 11,551,541,600 449,975,997 10,500 45,500 41,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 45,500 44,975,997 10,500 4	\$	\$	\$	\$	s	\$
58,973,786 62,413,111 66,539,420 68,975,083 72,673,866 77,551,575 184,551,914 204,677,641 232,292,787 258,950,891 277,032,295 307,867,731 7,376,869 9,277,807 9,888,536 10,819,896 10,769,037 10,400,010 16,361,137 17,392,469 15,152,966 12,573,922 13,911,267 13,463,791 34,433,805 36,609,679 38,147,898 37,568,226 38,014,210 39,423,984 7,413,229 7,900,466 9,681,858 9,579,584 17,237,653 9,381,215 3,465,797 2,323,308 2,399,184 1,894,582 2,124,392 2,421,279 11,262,480 10,607,525 12,371,724 12,035,788 20,485,481 13,528,676 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,389 45,645,051 49,776,907 58,528,557 63,315,360 69,363,792 70,456,844 11,004,473 10,574,522 11,633,136 11,226,905 10,105,465 10,589,995	243,525,700	267,090,752	298.832.207	327.925.974	"	385.419.306
7,376,869 9,277,807 9,858,536 10,319,896 10,769,037 10,400,010 16,361,137 17,392,469 15,512,896 14,174,408 13,333,906 15,560,183 10,695,799 9,939,403 12,776,466 12,573,922 13,911,267 13,463,791 34,433,805 36,609,679 38,147,898 37,568,226 38,014,210 39,9423,984 7,413,229 7,000,466 9,681,838 9,579,584 17,237,653 9,881,215 3,465,797 2,323,308 2,399,184 1,894,882 2,214,392 2,421,279 11,262,480 16,725,0921 183,262,708 200,293,236 218,736,441 238,790,539 352,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 45,645,051 49,776,907 58,528,57 63,315,360 69,363,792 70,456,844 1,090,473 10,574,522 11,633,156 11,226,005 10,105,465 10,589,995 2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 <td>58,973,786</td> <td>62,413,111</td> <td></td> <td></td> <td></td> <td></td>	58,973,786	62,413,111				
16,361,137 17,392,469 12,776,466 12,573,922 13,911,267 13,463,791 34,433,805 36,609,679 9,939,403 38,147,898 37,558,226 38,014,210 39,423,984 383,751 290,682 561,622 1,033,436 1,726,182 3,465,797 2,223,308 2,399,184 1,203,768 2,214,392 2,421,279 11,262,480 10,607,525 12,371,724 12,035,788 20,485,481 238,790,589 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 45,645,051 49,776,907 1,633,436 1,1226,905 10,105,465 10,589,995 2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 59,579,266 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 818,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 818,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 818,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 83,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 83,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 83,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 83,262,708 200,293,236 218,736,441 238,790,589 264,918 200,293,236 218,736,441 238,790,589 238,790,589 249,790,790	184,551,914	204,677,641	232,292,787	258,950,891	277,032,295	307,867,731
16.361.37						
10,695,799				10,819,896	10,769,037	
34,433,805 36,609,679 38,147,898 37,568,226 38,014,210 39,423,984 7,413,229 7,900,466 9,681,858 9,579,584 17,237,653 9,381,215 383,454 383,751 290,682 561,622 1,033,436 1,726,182 3,405,797 2,323,308 2,399,184 1,894,882 2,214,392 2,421,279 11,262,480 10,607,525 12,371,724 12,035,788 20,485,641 135,766,441 238,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 45,645,051 49,76,907 58,528,557 63,315,360 69,363,792 70,456,844 11,090,473 10,574,522 11,633,156 61,122,695 10,105,465 10,589,995 2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589					13,333,906	15,560,183
7.413.229 7.900,466 9.681,858 9.579,584 17,237,653 9.381,215 383,454 383,751 290,682 561,622 1,033,436 1,726,182 11,262,480 10,607,525 12,371,724 12,035,788 20,485,481 13,528,676 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 2338,790,589 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 475,645,051 49,776,907 58,528,557 63,315,360 69,363,792 70,456,844 11,090,473 10,574,522 11,633,156 11,226,905 10,105,465 10,589,995 2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 59,579,266 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 20,293,236 218,736,441 238,790,589 38,905,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 6,488,672 69,338,990 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 266,484,673 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 266,238 11,457,199 1,554,347 1,580,224 1,723,986 2,400,076 11,557,269 12,076,620 13,406,955 14,362,588 116,2424,745 178,086,883 17,558,051 1,155,059,240 31,154,749 11,554,347 1,580,224 1,723,986 11,554,347 1,550,584 11,554,268,427 599,610,980 11,554,347 1,550,584 11,554,340 11,157,269 12,076,620 13,406,955 14,362,587 15,544,060 170,666,881 11,527,769 12,076,620 13,406,955 14,362,587 15,544,060 170,666,881 3,242,705 4,216,677 4,744,945 5,354,541 11,457,199 11,554,347 1,580,224 1,723,986 11,554,347 1,550,544 11,656,540 11,157,766 45,540,540 11,155,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,769 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,766 11,157,776 11,157,766 11,157,776 11,157,776 11,157,776 11,157,776 11,157,776	10,695,799	9,939,403	12,776,466	12,573,922	13,911,267	13,463,791
383,454 3,465,797 2,323,308 2,399,184 1,894,582 2,214,392 2,241,392 2,421,279 11,262,480 11,262,490 11,262,480 11,262,490	34,433,805	36,609,679	38,147,898	37,568,226	38,014,210	39,423,984
383,454 3,465,797 2,323,308 2,399,184 1,894,582 2,214,392 2,241,392 2,421,279 11,262,480 11,262,490 11,262,480 11,262,490	7.413.229	7.900.466	9.681.858	9.579.584	17.237.653	9.381.215
3,465,797 2,323,308 2,399,184 1,894,582 2,214,392 2,421,279 11,262,480 10,607,525 12,371,724 12,035,788 20,485,481 235,790,589 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 45,645,051 49,776,907 58,528,557 63,315,360 69,363,792 70,456,844 11,090,473 10,574,522 11,633,156 11,226,905 10,105,465 10,589,995 2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 152,461,822 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 363,454 383,751 299,682 561,622 1,333,						
152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 45,645,051 49,776,907 58,528,557 63,315,360 69,363,792 70,456,844 11,090,473 10,574,522 11,633,156 11,226,905 10,105,465 10,589,995 2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 59,579,266 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 38,654 380,714,224 820,622 560,238 546,033 200,816						
152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 45,645,051 49,776,907 58,528,557 63,315,360 69,363,792 70,456,844 11,090,473 10,574,522 11,633,156 11,226,905 10,105,465 10,589,995 59,579,266 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,4	11 262 480	10 607 525	12 371 724	12 035 788	20 485 481	13 528 676
45,645,051						
45,645,051	382,710,021	419.145.766	466,075,117	508.848.141	554.268.427	599,610,980
11,090,473 10,574,522 11,633,156 11,226,905 10,105,465 10,589,995 2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 59,579,266 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 <t< td=""><td></td><td>227,220,700</td><td></td><td></td><td></td><td></td></t<>		227,220,700				
11,090,473 10,574,522 11,633,156 11,226,905 10,105,465 10,589,995 2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 59,579,266 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 38,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,986 </td <td>45 645 054</td> <td>40 774 007</td> <td>F0 F00 FFF</td> <td>62 245 260</td> <td>60 262 702</td> <td>70 456 944</td>	45 645 054	40 774 007	F0 F00 FFF	62 245 260	60 262 702	70 456 944
2,843,742 3,493,146 3,910,276 4,207,237 6,175,200 6,565,031 59,579,266 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980					. , ,	
59,579,266 63,844,575 74,071,989 78,749,502 85,644,457 87,611,870 152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 111,160,86;			' '			
152,461,822 167,250,921 183,262,708 200,293,236 218,736,441 238,790,589 8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 1,457,199 1,554,347 1,580,224 1,723,986 2,400,076 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883	2,843,142	3,493,140	3,910,270	4,207,237	0,173,200	
8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 1,29,810,298 1,554,347 1,580,224 1,723,986 2,400,07 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 111,160,866 <	59,579,266	63,844,575	74,071,989	78,749,502	85,644,457	87,611,870
8,095,705 7,765,477 6,948,236 5,658,849 3,507,375 2,864,918 160,557,527 175,016,398 190,210,944 205,952,085 222,243,816 241,655,507 64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 1,29,810,298 142,629,092 151,855,664 160,700,759 175,686,813 1,345,281 1,457,199 1,554,347 1,580,224 1,723,986 2,400,07 120,856,115 131,267,497 144,183,439 153,45,888 162,424,745 178,086,883 <	152.461.822	167.250.921	183.262.708	200,293,236	218,736,441	238,790,589
64,210,220 66,488,672 69,338,990 72,087,556 75,021,200 77,881,620 383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 1,29,810,298 1,457,199 1,554,347 1,580,224 1,723,986 2,400,076 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 511,160,866 426,606 459,594 13,406,955 14,362,587 15,544,060 17,065,086 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 1						2,864,918
383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 1,345,281 129,810,298 1,457,199 142,629,092 1,554,347 151,855,664 1,580,224 160,700,759 1,723,986 175,686,813 2,400,076 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 426,606 11,557,269 9,299,705 9,896,805 3,2942,705 6,547,361 6,547,361 7,193,495 7,193,495 7,709,546 7,709,546 8,389,004 8,389,004 9,216,594 144,121 9,374 13,654,401 143,654,401 143,676,564 160,581,283 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,283 14,081,133 17,500,087 19,401,325	160,557,527	175,016,398	190,210,944	205,952,085	222,243,816	241,655,507
383,454 383,751 290,682 561,622 1,033,436 1,726,182 98,687,493 114,727,112 132,983,134 152,057,614 170,871,551 190,444,985 707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 1,345,281 129,810,298 1,457,199 142,629,092 1,554,347 151,855,664 1,580,224 160,700,759 1,723,986 175,686,813 2,400,076 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 426,606 11,557,269 9,299,705 9,896,805 3,2942,705 6,547,361 6,547,361 7,193,495 7,193,495 7,709,546 7,709,546 8,389,004 8,389,004 9,216,594 144,121 9,374 13,654,401 143,654,401 143,676,564 160,581,283 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,283 14,081,133 17,500,087 19,401,325	64 210 220	66 400 670	60 229 000	72 087 556	75 021 200	77 881 620
707,939 1,314,742 820,622 560,238 546,033 290,816 162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 129,810,298 142,629,092 151,855,664 160,700,759 175,686,813 1,345,281 1,457,199 1,554,347 1,580,224 1,723,986 2,400,070 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 111,160,867 426,606 459,594 501,386 575,771 509,240 531,076 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,086 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,776						
162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 1,345,281 129,810,298 1,457,199 142,629,092 1,554,347 151,855,664 1,580,224 160,700,759 1,723,986 175,686,813 2,400,070 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 426,606 459,594 79,779,898 501,386 87,344,024 501,386 92,682,089 575,771 98,563,451 509,240 111,160,863 531,070 11,527,269 9,299,705 12,076,620 9,896,805 13,406,955 11,015,893 12,086,583 12,086,583 13,654,386 13,654,386 14,954,828 14,954,828 6,175,773 14,954,828 6,175,773 14,954,828 6,175,773 16,824,776 6,547,361 7,193,495 7,709,546 5,504,842 8,389,004 9,216,594 9,216,594 10,030,350 10,030,350 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,287 14,081,133 17,500,087 19,401,325 19,781,487 1,255,805 1,310,009	98,687,493	114,727,112	132,983,134	152,057,614	170,871,551	190,444,985
162,573,228 180,284,793 201,792,184 224,146,554 246,380,154 270,343,603 382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 1,345,281 129,810,298 1,457,199 142,629,092 1,554,347 151,855,664 1,580,224 160,700,759 1,723,986 175,686,813 2,400,070 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 426,606 459,594 79,779,898 501,386 87,344,024 501,386 92,682,089 575,771 98,563,451 509,240 111,160,863 531,070 11,527,269 9,299,705 12,076,620 9,896,805 13,406,955 11,015,893 12,086,583 12,086,583 13,654,386 13,654,386 14,954,828 14,954,828 6,175,773 14,954,828 6,175,773 14,954,828 6,175,773 16,824,776 6,547,361 7,193,495 7,709,546 5,504,842 8,389,004 9,216,594 9,216,594 10,030,350 10,030,350 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,287 14,081,133 17,500,087 19,401,325 19,781,487 1,255,805 1,310,009	707 020	1 214 742	820 622	560 238	546.033	290.816
382,710,021 419,145,766 466,075,117 508,848,141 554,268,427 599,610,980 119,510,834 129,810,298 142,629,092 151,855,664 160,700,759 175,686,813 1,345,281 1,457,199 1,554,347 1,580,224 1,723,986 2,400,076 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 111,160,867 426,606 459,594 501,386 575,771 509,240 531,076 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,086 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,776 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,356 141,824 144,121 59,374 53,525 13,060 14,316 106,77	707,939					
119,510,834 129,810,298 142,629,092 151,855,664 160,700,759 175,686,813 1,345,281 1,457,199 1,554,347 1,580,224 1,723,986 2,400,070 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 111,160,867 426,606 459,594 501,386 575,771 509,240 531,076 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,088 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,77 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,350 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,287 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 1	162,573,228	180,284,793	201,792,184	224,140,554	240,380,134	
1345,281 1,345,189 1,554,347 1,580,224 1,723,986 2,400,070 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 111,160,867 426,606 459,594 501,386 575,771 509,240 531,076 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,080 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,770 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,350 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,283 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596	382,710,021	419,145,766	466,075,117	508,848,141	554,268,427	599,610,980
1345,281 1,345,189 1,554,347 1,580,224 1,723,986 2,400,070 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 111,160,867 426,606 459,594 501,386 575,771 509,240 531,076 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,080 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,770 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,350 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,283 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596						
1345,281 1,345,189 1,554,347 1,580,224 1,723,986 2,400,070 120,856,115 131,267,497 144,183,439 153,435,888 162,424,745 178,086,883 75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 111,160,867 426,606 459,594 501,386 575,771 509,240 531,076 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,080 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,770 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,350 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,283 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596	440 540 001	100 010 000	142 620 002	151 855 664	160 700 759	175 686 813
1,943,261 1,437,199 1,637,197 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
75,589,512 79,779,898 87,344,024 92,682,089 98,563,451 111,160,865 426,606 459,594 501,386 575,771 509,240 531,076 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,086 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,776 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,356 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,28° 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596	1,345,281	1,457,199	1,554,541	1,000,221	2,720,700	
426,606 459,594 501,386 575,771 509,240 531,076 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,086 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,422 6,175,773 6,824,77 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,350 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,287 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596	120,856,115	131,267,497	144,183,439	153,435,888	162,424,745	178,086,883
426,606 459,594 501,386 575,771 509,240 531,076 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,086 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,422 6,175,773 6,824,77 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,350 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,287 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596				00 400 000	00 562 454	111 160 96
426,060 439,394 301,306 11,527,269 12,076,620 13,406,955 14,362,587 15,544,060 17,065,080 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,770 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,350 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,287 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596						
11,327,299 12,010,029 9,299,705 9,896,805 11,015,893 12,086,583 13,654,386 14,954,828 3,242,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,77 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,356 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,283 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596						
3,292,705 4,216,877 4,744,936 5,504,842 6,175,773 6,824,776 6,547,361 7,193,495 7,709,546 8,389,004 9,216,594 10,030,356 141,824 144,121 59,374 53,525 13,060 14,316 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,283 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596						
3,242,705 4,216,877 6,547,361 7,193,495 141,824 7,799,546 59,374 53,525 106,774,982 113,767,410 124,782,114 133,654,401 14,081,133 17,500,087 19,401,325 19,781,487 14,082,77 1,255,805 1,310,009						
141,824 144,121 59,374 53,525 13,060 14,310 106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,28′ 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596			1			
106,774,982 113,767,410 124,782,114 133,654,401 143,676,564 160,581,287 14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,596 1,081,133 1,081,133 1,081,133 1,081,133 1,081,133 1,081,133 1,081,133 1,081,133						
14,081,133 17,500,087 19,401,325 19,781,487 18,748,181 17,505,590			124,782,114	133,654,401	143,676,564	160,581,28
1 102 257 1 255 905 1 310 099				19,781,487	18,748,181	17,505,596
1,045,742 1,089,835 1,153,371 1,192,357 1,253,805 1,510,055			1,153,371	1,192,357	1,255,805	1,310,099

Southern Ontario System

Municipality	Acton	Ailsa Craig	Ajax	Alexandria	a Alfred	Alliston
Population	4,204	547	8,013	2,529	952	2,918
A. BALANCE SHEETS						
FIXED ASSETS	\$	s	\$	\$		
Plant and facilities at cost						\$
Accumulated depreciation				, , , , , , , , , , , , , , , , , , , ,		166,963 32,48.
Net fixed assets	. 288,798	37,729	691,485	182,373	44,652	124 400
CURRENT ASSETS					44,032	134,480
Cash on hand and in bank		4,473	51,756	11,496	19,653	14,203
Investment in government securitie				,000		18,000
Accounts receivable	. 15,717	187	13,670	2,540	4,689	5,500
Total current assets OTHER ASSETS	47,745	4,660	65,426	27,036	24,342	37,703
Inventory of stores	. 909		22 242	44.455		
Sinking fund on local debentures		********	23,212	11,177		5,302
Miscellaneous	. 628	65	876	221	769	
Total other assets	. 1,537	65	24.000	44.200		
Equity in Ontario Hydro Systems		49,858	24,088 51,332	,	769	5,302
in official strains by secting		47,030	31,332	121,440	4,412	117,757
	675,019	92,312	832,331	342,247	74,175	295,242
LIABILITIES						
Debentures outstanding	. 62,100		316,000	5,643	32,500	
Accounts payable	1,039	141	20,521	319	1,381	10
Other	7,482	230	33,297	2,957	2,721	4,066
Total liabilities	70,621	. 371	369,818	8,919	36,602	4,076
RESERVES	226.020	40.050				
Equity in Ontario Hydro Systems. Other	336,939	49,858	51,332	121,440	4,412	117,757
					* * * * * * * * * * * * * * * * * * * *	117
Total reserves	336,939	49,858	51,332	121,440	4,412	117,874
Debentures redeemed	22,400	6,884	34,000	47,657	5,500	29,990
Local sinking fund						29,990
Accumulated net income invested in	ı.					
plant or held as working funds.	243,794	35,016	377,181	164,231	27,661	143,302
Frequency standardization expense charged this year	1 265	402				
charged this year	1,265	183		********	*********	• • • • • • • • • • • • • • • • • • • •
Total capital	267,459	42,083	411,181	211,888	33,161	173,292
	675,019	92,312	832,331	342,247	74,175	295,242
OBED AMING OF A						
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	217,338	17 605	210.072	04 555		
Other	414	17,605	312,973 4,308	81,556	22,011	98,659
				4,793	323	879
Total revenue	217,752	17,637	317,281	86,349	22,334	99,538
EXPENSE						
Power purchased	153,460	12,304	164,089	59,077	13,383	63,467
Local generation						
Operation and maintenance	17,809	945	23,038	5,178	1,473	12,543
Administration	13,314	867	45,601	7,866	2,086	8,402
Fixed charges—interest and principal	5,589		27,571	2,072	3,096	
—depreciation —other	6,726	804	19,384	6,465	1,734	4,284
		• • • • • • • • • • • • • • • • • • • •				
TO 1 1						
Total expense	196,898	14,920	279,683	80,658	21,772	88,696
Total expense	20,854	2,717	279,683 37,598	5,691	562	10,842

Almonte 3,227 \$ 379,301 84,427 294,874 3,297 52,000 2,774 58,071 12,251	\$ 56,928 15,456 41,472 1,781 3,500 858 6,139 17 200 217 48,924 96,752	Amherst- burg 4,389 \$ 367,562 72,817 294,745 25 17,835 3,073 20,933 6,361	Ancaster Twp. 12,207 \$ 241,074 31,163 209,911 8,788	Apple Hill 400 \$ 22,151 4,522 17,629 1,478 3,000 688 5,166	Arkona 476 \$ 42,635 9,294 33,341 2,048 4,000 1,077 7,125	\$ 409,419 42,839 366,580 36,614	Arthur 1,215 \$ 101,161 21,279 79,882 10,000 1,129	\$ 60,671 8,960 51,711 770 16,000 2,306
\$ 379,301 84,427 294,874 3,297 52,000 2,774 58,071 12,251	\$ 56,928	\$ 367,562 72,817 294,745 25 17,835 3,073 20,933 6,361	\$ 241,074 31,163 209,911 8,788	\$ 22,151 4,522 17,629 1,478 3,000 688 5,166	\$ 42,635 9,294 33,341 2,048 4,000 1,077 7,125	\$ 409,419 42,839 366,580 36,614	\$ 101,161 21,279 79,882 10,000 1,129	\$ 60,671 8,960 51,711 770 16,000
379,301 84,427 294,874 3,297 52,000 2,774 58,071 12,251 12,251 42,887	56,928 15,456 41,472 1,781 3,500 858 6,139 17 200 217 48,924	367,562 72,817 294,745 25 17,835 3,073 20,933 6,361 	241,074 31,163 209,911 8,788 1,472 10,260 476	22,151 4,522 17,629 1,478 3,000 688 5,166	42,635 9,294 33,341 2,048 4,000 1,077 7,125	409,419 42,839 366,580 36,614 	101,161 21,279 79,882 10,000 1,129	51,711 770 16,000
379,301 84,427 294,874 3,297 52,000 2,774 58,071 12,251 	56,928 15,456 41,472 1,781 3,500 858 6,139 17 200 217 48,924	367,562 72,817 294,745 25 17,835 3,073 20,933 6,361 	241,074 31,163 209,911 8,788 1,472 10,260 476	22,151 4,522 17,629 1,478 3,000 688 5,166	42,635 9,294 33,341 2,048 4,000 1,077 7,125	409,419 42,839 366,580 36,614 	101,161 21,279 79,882 10,000 1,129	51,711 770 16,000
379,301 84,427 294,874 3,297 52,000 2,774 58,071 12,251 	56,928 15,456 41,472 1,781 3,500 858 6,139 17 200 217 48,924	367,562 72,817 294,745 25 17,835 3,073 20,933 6,361 	241,074 31,163 209,911 8,788 1,472 10,260 476	22,151 4,522 17,629 1,478 3,000 688 5,166	42,635 9,294 33,341 2,048 4,000 1,077 7,125	409,419 42,839 366,580 36,614 	101,161 21,279 79,882 10,000 1,129	51,711 770 16,000
84,427 294,874 3,297 52,000 2,774 58,071 12,251 12,251 42,887	15,456 41,472 1,781 3,500 858 6,139 17 200 217 48,924	294,745 25 17,835 3,073 20,933 6,361	31,163 209,911 8,788 1,472 10,260 476	1,7629 1,478 3,000 688 5,166	9,294 33,341 2,048 4,000 1,077 7,125	366,580 36,614 2,899	79,882 10,000 1,129	51,711 770 16,000
3,297 52,000 2,774 58,071 12,251 12,251 42,887	1,781 3,500 858 6,139 17 200 217 48,924	25 17,835 3,073 20,933 6,361 272	1,472 10,260 476	1,478 3,000 688 5,166	2,048 4,000 1,077 7,125	2,899	10,000	770 16,000
3,297 52,000 2,774 58,071 12,251 12,251 42,887	1,781 3,500 858 6,139 17 200 217 48,924	25 17,835 3,073 20,933 6,361 272	1,472 10,260 476	1,478 3,000 688 5,166	2,048 4,000 1,077 7,125	2,899	10,000	770 16,000
52,000 2,774 58,071 12,251 12,251 42,887	3,500 858 6,139 17 200 217 48,924	17,835 3,073 20,933 6,361 272 6,633	1,472	3,000 688 5,166	4,000 1,077 7,125	2,899	10,000	16,000
52,000 2,774 58,071 12,251 12,251 42,887	3,500 858 6,139 17 200 217 48,924	17,835 3,073 20,933 6,361 272 6,633	1,472	3,000 688 5,166	4,000 1,077 7,125	2,899	10,000	16,000
2,774 58,071 12,251 12,251 42,887	858 6,139 17 200 217 48,924	3,073 20,933 6,361 272 6,633	10,260	5,166	7,125		1,129	
12,251 12,251 42,887	200 217 48,924	6,361	476			39,513	11.129	
12,251 12,251 42,887	200 217 48,924	6,361	476			39,513	11.129	10.076
12,251 42,887	200 217 48,924	6,633					-,	19,076
12,251 42,887	217 48,924	6,633	864			4,777		
12,251 42,887	217 48,924	6,633	864					
42,887	48,924			500		180	1,500	
42,887	48,924		1,340	500		4,957	1,500	
408,083	96,752		103,095	11,668	27,164	170,790	71,602	29,304
408,083	96,752	FOT 042	221 (0)	24.0/2	(7.720	FD1 040	1/4 112	100.001
		585,812	324,606	34,963	67,630	581,840	164,113	100,091
						40.44		
		20,700	82,506			48,449		
7,606	3	3,033	261			3,184	2,953	1,848
1,118	73	4,447	2,020	37	70	8,764	1,670	193
8,724	76	28,180	84,787	37	70	60,397	4,623	2,041
42,887	48,924	263,501	103,095	11,668	27,164	170,790	71,602	29,304
2,450	33	438		,				206
			400.00#	44.660	07.464	170 700	71.602	20 510
45,337	48,957	263,939	103,095	11,668	27,164	170,790	71,602	29,510
72,000	23,529	47,809	46,604	5,080	13,113	77,020	23,914	12,988
					,		,	,
282,022	23,968	244,271	88,722	18,178	27,283	273,633	63,974	55,552
202,022	20,700		33,12-	,				
	222	1,613	1,398				,	
354,022	47,719	293,693	136,724	23,258	40,396	350,653	87,888	68,540
408,083	96,752	585,812	324,606	34,963	67,630	581,840	164,113	100,091
07.001	47.440	190,941	124,540	6,811	17,487	187,498	37,704	17,098
97,231 3,964	17,142	2,410	634	165	225	2,796	1,111	846
								45.044
101,195	17,271	193,351	125,174	6,976	17,712	190,294	38,815	17,944
								10.000
45,031	10,260	127,793	77,056	3,288	12,033	131,666	24,838	12,838
9,670			16.053	017	775	7,618	4,762	1,319
8,716	1,716	10,788	16,052	917 874	775 1,133	16,388	2,689	1,596
10,976	1,649	17,212	10,567 9,051	0/4	10	6,619		
9,742	1,660	4,659 9,349	5,727	574	1,162	9,455	2,592	1,474
2,024								
		169,801	118,453	5,653	15,113	171,746	34,881	17,227
84,135	15,373							
84,135	15,373	23,550	6,721	1,323	2,599	18,548	3,934	717
		23,550	1,121	1,323	2,599	18,548	3,934	717 348

Municipality	Aurora	Avonmore	Aylmer	Ayr	Baden	Bancroft
Population	5,302	277	4,536	1,019	875	2,619
A. BALANCE SHEETS						
FIXED ASSETS	\$ 468,056	\$ 17.629	\$ 201,000	\$ 76.403	\$	\$
Plant and facilities at cost Accumulated depreciation	67,792	4,579	301,900 75,386	11,708	65,315 9,940	266,601 59,385
Net fixed assets CURRENT ASSETS	400,264	13,050	226,514	64,695	55,375	207,216
Cash on hand and in bank	2,034	2,378	34,397		2,888	31,730
Investment in government securities Accounts receivable	10,718	1,104	9,424	10,500	6,500 2,621	3,265
Total current assets OTHER ASSETS	12,752	3,482	43,821	11,352	12,009	34,995
Inventory of stores	1,948		446	15	70	10,783
Sinking fund on local debentures Miscellaneous	134	549	517			1,003
Total other assets	2,082	549	963	15	70	11 706
Equity in Ontario Hydro Systems	138,938	,	237,408	62,820	108,014	11,786 21,591
	554,036	17,081	508,706	138,882	175,468	275,588
LIABILITIES						
Debentures outstanding	21,776	14,000	43,000	4.066	400	80,375
Accounts payableOther	97,444	2,223	316 3,336	4,866	400 90	754 2,259
Total liabilities	119,220	16,646	46,652	5,204	490	83,388
RESERVES	138,938		227 400	60.000	400.044	0.4 #0.4
Equity in Ontario Hydro Systems Other	136,938	* * * * * * * * * * * * * * * * * * * *	237,408 337	62,820	108,014	21,591
Total reserves	139,072	* * * * * * * * * * * * * * * * * * * *	237,745	62,820	108,014	21,591
Debentures redeemed	• • • • • • • • •		45,702	17,503	5,000	52,125
Accumulated net income invested in plant or held as working funds.	295,340	435	190,597	57,510	61,633	118,484
Frequency standardization expense charged this year	404		11,990	4,155	331	
Total capital	295,744	435	224,309	70,858	66,964	170,609
	554,036	17,081	508,706	138,882	175,468	275,588
B. OPERATING STATEMENTS		3 months'				
REVENUE		operation				
Sales of electric energy	213,936	2,577	202,217	38,263	38,180	90,778
Other	7,638	5	685	512	208	210
Total revenue	221,574	2,582	202,902	38,775	38,388	90,988
EXPENSE						
Power purchased Local generation	160,656	1,463	138,178	26,503	28,848	48,706
Operation and maintenance	17,094	62	12,059	3,524	1,734	4,628 5,601
Administration	19,123	176	9,962	2,160	2,041	6,400
Fixed charges—interest and principal	791	317	5,116	67	2	9,907
—depreciation —other	9,668	129	8,535	1,942	1,573	7,024
Total expense	207,332	2,147	173,850	34,196	34,198	82,266
Net income or net expense	14,242	435	29,052	4,579	4,190	8,722

				827	538	308	686	9,450
121,451	3,439	3,380	10,642	12,833	9,973	6,283	4,706	69,706
666,499	19,064	15,467	112,761	65,844	52,108	22,453	44,131	811,902
42,970	1,714	1,529	2,490	3,270	2,692	1,490	2,000	
304		995	7		2 602	12 1,496	1,550 2,686	36,382
84,777 54,836	1,618 2,366	857 2,192	4,282 1,451	3,630 6,100	4,567	1,895	7,151	77,356
					4,677	2,167	7,995	70,066
483,612	13,366	9,894	104,531	52,844	40,172	16,883	24,749	628,098
787,950	22,503	18,847	123,403	78,677	62,081	28,736	48,837	881,608
782,710 5,240	22,269	18,841 6	121,702 1,701	78,127 550	61,498 583	28,700 36	48,597 240	866,243 15,365
2,094,700	98,536	67,628	276,036	180,200	172,808	118,314	151,637	2,743,669
1,217,298	88,437	43,363	103,285	106,705	88,848	64,455	90,553	1,392,265
			386	1,179			924	
1,151,932	80,937	34,363	97,362	68,026	76,009	50,845	74,529	1,217,268
65,366	7,500	9,000	5,537	37,500	12,839	13,610	15,100	174,997
809,248	8,708	14,419	170,004	70,326	83,265	52,570	54,086	1,061,384
808,748 500	8,708	14,369 50	169,811 193	70,326	82,895 370	52,484 86	54,071 15	1,061,384
68,154	1,391	9,846	2,747	3,169	695	1,289	6,998	290,020
47,902 20,252	1,065 326	512 834	2,337 410	1,822 1,347	695	315 974	196 1,402	252,098 37,922
		8,500		.,,		24.5	5,400	252.002
2,094,700	98,536	67,628	276,036	180,200	172,808	118,314	151,637	2,743,669
36,905 808,748	8,708	14,369	4 169,811	70,326	171 82,895	500 52,484	1,298 54,071	25,751 1,061,384
654			4			500	945	
36,251					171		353	25,751
51,786	13,213	4,206	35,788	7,924	5,639	6,340	11,564	280,717
14,062 37,574	571	581	25,000 1,979	4,000 1,685	768	1,500 892	2,000 1,532	205,000 59,219
1,197,261	76,615	49,053 3,625	70,433 8,809	2,239	84,103 4,871	58,990 3,948	84,704	1,375,817
1,586,129 388,868	81,328 4,713	60,252	94,098 23,665	126,874 24,924	102,546	65,671	105,443	1,675,302 299,485
\$	\$	\$	\$	\$	\$	\$	\$	\$
20,899	1,461	650	813	2,356	1,156	775	1,919	28,700
Barrie	Barry's Bay	Bath	Beachville	Beamsville	Beaverton	Beeton	Belle River	Belleville

Municipality	Blenheim	Bloomfield	Blyth	Bobcaygeon	Bolton	Bothwell
Population	2,975	755	730	1,180	1,702	804
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 287,789 38,909	\$ 55,135 17,756	\$ 63,920 8,809	\$ 171,853 56,117	\$ 142,273 19,273	\$ 56,790 15,528
Net fixed assets CURRENT ASSETS	248,880	37,379	55,111	115,736	123,000	41,262
Cash on hand and in bank Investment in government securities Accounts receivable	1,338 2,746	3,513 11,992 248	11,891 2,000 252	100 387	4,658 2,279	25 5,808 1,202
Total current assets	4,084	15,753	14,143	487	6,937	7,035
Inventory of stores	1,250		44	8,899	329	32
Miscellaneous	5,289	1,400		900	1,760	165
Total other assets Equity in Ontario Hydro Systems	6,539 151,430	1,400 32,010	44 47,480	9,799 21,563	2,089 6 9,804	197 57,269
	410,933	86,542	116,778	147,585	201,830	105,763
LIABILITIES Debentures outstanding. Accounts payable. Other.	58,082 	50 657	86 247	37,237 380	51,574 8,934 3,291	1,384 160
Total liabilities	65,435	707	333	37,617	63,799	1,544
RESERVES Equity in Ontario Hydro Systems Other	151,430 183	32,010	47,480	21,563	69,804 100	57,269
Total reserves	151,613	32,010	47,480	21,563	69,904	57,269
Debentures redeemed	39,918	9,797	16,033	15,283	15,729	5,534
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	152,588	44,028	52,874	73,122	52,288	43,278
charged this year	1,379	•••••	58	* * . * * * * * * * * * * * * * * * * *	110	1,862
Total capital	193,885	53,825	68,965	88,405	68,127	46,950
	410,933	86,542	116,778	147,585	201,830	105,763
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy Other	95,956 2,827	16,735 551	33,611 105	50,989 270	62,267	22,341 477
Total revenue	98,783	17,286	33,716	51,259	62,479	22,818
EXPENSE						
Power purchased	52,652	12,088	24,271	23,548	39,813	14,616
Operation and maintenance	7,800	1,469	2,692	5,249	4,934	2,676
AdministrationFixed charges—interest and principal	16,679	2,001	1,869	7,279	6,431	3,351
—depreciation	9,844 6,829	1,051	1,556	3,380	4,896 3,303	1,635
other						
Total expense	93,804	16,610	30,388	40,061	59,377	22,280
Net income or net expense	4,979	676	3,328	11,198	3,102	538
Number of customers	1,100	307	326	709	650	321

			1					
Bowman- ville	Bracebridge	Bradford	Braeside	Brampton	Brantford	Brantford Twp.	Brechin	Bridgeport
7,203	2,821	2,298	559	15,241	53,201	7,247	259	1,617
						BP/54-04-07-07-07-07-07-07-07-07-07-07-07-07-07-		
\$	\$	\$	\$	\$	\$	\$	\$	\$
626,946	819,477	219,164	28,735	1,341,774	4,491,130	911,478	17,893	81,751
172,292	190,535	27,639	1,380	112,266	1,017,080	226,818	2,829	17,817
454,654	628,942	191,525	27,355	1,229,508	3,474,050	684,660	15,064	63,934
40.004								
17,091 119,178	15,750	13,235 8,000	4,475	100 1,500	18,094	26,553	7,000	6,780 5,000
4,329	10,263	8,191	6,757	9,841	22,000 77,499	54,825 5,500	146	929
140,598	26,013	29,426	11,232	11,441	117,593	86,878	8,035	12,709
15,405	15,056	11,019		39,156	85,937	25,410		22
							, . ,	
1,487	300	245		235	10,676	7,817		841
16,892	15,356	11,264	,	39,391	96,613	33,227		863
401,163	1,663	92,024	14,829	717,443	4,064,890	174,670	22,540	42,049
1,013,307	671,974	324,239	53,416	1,997,783	7,753,146	979,435	45,639	119,555
	265 661		1.066	204.000	E07 675	E06 000		17 500
1,022	265,661	532	1,966 441	294,000 199,044	587,675 5,406	506,909 2,418	80	17,500 798
3,651	1,010	2,286	215	11,008	70,323	18,711	150	1,757
4.672	266.674	0.040	2.600	504.050	662 404	500,020	220	20.055
4,673	266,674	2,818	2,622	504,052	663,404	528,038	230	20,055
401,163	1,663	92,024	14,829	717,443	4,064,890	174,670	22,540	42,049
400		100		347	2,363	225	50	
401,563	1,663	92,124	14,829	717,790	4,067,253	174,895	22,590	42,049
201,000	1,000	22,222	11,02	121,170	-,	211,211		
71,000	240,139	23,351	4,035	125,286	865,439	62,103	2,664	14,868
536,071	163,498	205,946	31,930	646,137	2,149,408	211,720	20,155	42,104
				4 540	7 640	2.670		479
********				4,518	7,642	2,679	,	
607,071	403,637	. 229,297	35,965	775,941	3,022,489	276,502	22,819	57,451
1,013,307	671,974	324,239	53,416	1,997,783	7,753,146	979,435	45,639	119,555
2,010,007	071,771	021,207	00,120		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
0.55		0.7.2.	40.005	FOC 027	0.100.460	256 602	6,897	41,585
252,065 6,730	131,117 1,045	93,210 880	40,992 419	506,235 4,174	2,129,460 3,269	356,683 4,334	250	41,363
	1,045			-,				
258,795	132,162	94,090	41,411	510,409	2,132,729	361,017	7,147	42,030
182,529	1,881	55,302	29,521	362,224	1,530,713	184,381	4,702	28,265
	33,325	40.707	1 202	26 201	130.814	37,991	865	3,293
23,807 18,008	17,504 11,655	12,707 8,698	1,293 1,125	26,291 29,857	130,814 91,028	23,337	718	5,245
10,000	29,723		465	28,449	66,576	42,884		1,534
17,952	16,993	4,890	600	27,387	125,229	25,362	446	2,231
242,296	111,081	81,597	33,004	474,208	1,944,360	313,955	6,731	40,568
16,499	21,081	12,493	8,407	36,201	188,369	47,062	416	1,462
2,402	1,173	795	159	4,910	16,738	2,074	95	441
2,402	1,173	173	109	-,,-				

Municipality	Brigden	Brighton	Brockville	Brussels	Burford	Burgess- ville
Population	518	2,260	16,622	845	1,030	243
A. BALANCE SHEETS						
FIXED ASSETS	\$	\$	\$	s	\$	\$
Plant and facilities at cost	: 41,249	171,308	1,383,873	68,695	68,553	20,214
Accumulated depreciation	10,844	14,299	338,465	7,543	18,781	6,886
Net fixed assets	30,405	157,009	1,045,408	61,152	49,772	13,328
CURRENT ASSETS Cash on hand and in bank	8,240	15.502		665	10,268	2,746
Investment in government securities	·	10,000	12,000		3,500	1,500
Accounts receivable	260	866	23,306	1,167	1,221	309
Total current assets	10,451	26,368	35,306	1,832	14,989	4,555
OTHER ASSETS Inventory of stores	48	7,404	25,765	88	136	
Sinking fund on local debentures						
Miscellaneous	27	25	2,555	2,000	146	25
Total other assets	75	7,429	28,320	2,088	282	25
Equity in Ontario Hydro Systems	38,994	78,838	934,636	57,297	61,453	20,343
	79,925	269,644	2,043,670	122,369	126,496	38,251
LIABILITIES						
Debentures outstanding			83,500		11,475	
Accounts payable	14	18,852	64,589	2,577	1,074	
Other	200	2,889	11,100	265	1,186	
Total liabilities	214	21,741	159,189	2,842	13,735	
Equity in Ontario Hydro Systems	38,994	78,838	934,636	57,297	61,453	20,343
Other			76			
Total reserves	38,994	78,838	934,712	57,297	61,453	20,343
Debentures redeemed	. 8,000	25,000	183,770	21,000	9,525	3,500
Local sinking fund						
Accumulated net income invested in		444.005	767.000	44.007	41 160	14.056
plant or held as working funds.	32,676	144,065	765,999	41,007	41,168	14,256
Frequency standardization expense charged this year	41			223	615	152
Total capital	40,717	169,065	949,769	62,230	51,308	17,908
	79,925	269,644	2,043,670	122,369	126,496	38,251
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	15,064	69,812	681,807	35,032	43,249	9,625
Other	245	921	11,321	64	273	70
Total revenue	15,309	70,733	693,128	35,096	43,522	9,695
EXPENSE						
Power purchased	9,149	44,661	447,349	25,578	28,002	6,818
Local generation						
Operation and maintenance		5,611	81,316	1,413	3,865	171
Administration	-,	8,771	59,278	2,726	2,117	413
Fixed charges—interest and principal		2 605	9,432	1 502	1,227	640
—depreciation —other	1,186	3,695	36,829	1,592	2,021	649
Total expense	13,096	62,738	634,204	31,310	37,232	8,052
Net income or net expense	2,213	7,995	58,924	3,786	6,290	1,643
Number of customers	221	972	5,488	386	414	99

27,426	1,509,013	52,032	45,292	7,239	31,403	40,035	159,237	33,197
1,760	70,691	3,498	3,819	474	1,952	1,732		
3,039	176,744	666	2,788	474	1 952	1,752	1,512 6,300	5,725 1,856
2,948	136,438	7,388	12,671	447	2,591	3,296	24,416	3,060
2,482	114,412	5,456	7,979	487	2,248	3,506	18,318	1,523
17,197	1,010,728	35,024	7,548 10,487	5,831	24,612	31,481	108,691	21,033
27,067	1,749,896	61,161	49,467	8,982	36,223	43,792	174,348	38,206
26,524 543	1,744,590 5,306	61,093 68	48,740 727	8,878 104	35,836 387	43,507 285	173,216 1,132	37,436 770
			6 months' operation					
86,222	3,123,982	220,576	519,558	30,532	126,851	123,604	565,072	122,763
58,900	764,875	122,792	429,392	17,541	62,548	71,728	207,104	50,753
37,021	67	9,504		96	,		.,,	,
37,621	550,276	119,672	429,392	11,997	48,016	60,714	147,987	32,253
21,279	214,532	12,624		5,448	14,532	11,014	59,117	18,500
12,610	216,209	92,000	350	12,913	62,019	51,846	334,186	11,107
12,610	216,209	92,000	350	12,905 8	61,991 28	51,846	334,045 141	11,107
14,712	2,142,898	5,784	89,816	78	2,284	30	23,782	60,903
13,721 795 196	6,548 95,418	536 2,248	19,856 4,960	78	1,929	30	6,307 3,295	9,381
	2,040,932	3,000	65,000		-	,002	14,180	51,500
86,222	3,123,982	220,576	519,558	30,532	126,851	123,604	565,072	122,763
134 12,610	147,523 216,209	512 92,000	10,479	12,905	71 61,991	1,000 51,846	6,913 334,045	4,838 11,107
	99,327	99	1,579			1,000	100	4,838
10,937	107,072 48,196	14,127	15,361 8,900	5,106	10,232	10,733	18,839 6,813	28,093
2,653	61,351	2,564	5,649	210	400	639	3,839	20
3,384 4,900	8,221 37,500	11,563	9,712	4,396 500	3,832 6,000	8,594 1,500	15,000	14,073 14,000
62,541	2,653,178	113,937	493,718	12,521	54,557	60,025	205,275	78,725
\$ 74,297 11,756	\$ 3,106,730 453,552	\$ 137,736 23,799	\$ 618,879 125,161	\$ 16,634 4,113	\$ 70,286 15,729	\$ 71,277 11,252	\$ 250,428 45,153	\$ 85,522 6,797
863	42,511	2,197	3,393	ville 351	1,056	2,047	Place 4,684	1,269
Burk's Falls	Burlington	Caledonia	Campbell- ford	Campbell-	Cannington	Cardinal	Carleton	Casselman

Net income or net expense	879	270	9,458	1,704	707	9,585
Total expense	27,161	22,665	1,276,707	12,719	53,548	50,463
other					•••••	
—depreciation	89 2,220	4,360 1,650	94,776 66,204	852	3,298	1,866
Administration Fixed charges—interest and principal	5,467	1,419	199,615	903	5,604	4,646
Operation and maintenance	4,055	1,730	261,753	993	4,765	2,258
Power purchasedLocal generation	15,330	13,506	654,359	9,971	39,881	41,693
EXPENSE	28,040	21,414	1,376,894	14,423	59,288	60,048
Total revenue		21,414				
Sales of electric energy Other	27,394 646	21,058 356	1,366,430 10,464	14,156 267	58,417 871	59,598 450
B. OPERATING STATEMENTS REVENUE						
	125,109	78,439	4,355,914	55,712	244,211	188,620
Total capital	80,486	19,124	1,741,160	32,875	103,278	83,452
Frequency standardization expense charged this year	512		11,915			
Local sinking fund	59,974	14,624	965,222	27,861	78,868	77,563
Total reserves	41,144 20,000	8,305 4,500	1,698,601 764,023	5,014	140,774 24,410	105,059
Other	62		66,938			
RESERVES Equity in Ontario Hydro Systems	41,082	8,305	1,631,663	22,704	140,774	105,059
Total liabilities	3,479	51,010	916,153	133	159	109
Debentures outstanding	2,374 1,105	50,500 50 460	755,977 136,886 23,290	133	159	5 104
LIABILITIES						
	125,109	78,439	4,355,914	55,712	244,211	188,620
Total other assets Equity in Ontario Hydro Systems	2,420 41,082	2,633 8,305	136,642 1,631,663	22,704	521 140,774	105,059
Sinking fund on local debentures Miscellaneous	2,144	2,633	44,479		********	
OTHER ASSETS Inventory of stores	276		92,163	,	521	
Total current assets	8,512	13,171	315,777	11,067	29,687	29,796
Cash on hand and in bank Investment in government securities Accounts receivable	165 7,500 847	9,975	50 140,000 175,727	4,694 6,000 373	12,057 17,000 630	21,387 6,000 2,409
Net fixed assets CURRENT ASSETS	73,095	54,330	2,271,832	21,941	73,229	53,765
FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 87,857 14,762	\$ 65,616 11,286	\$ 2,831,409 559,577	\$ 29,758 7,817	\$ 107,088 33,859	\$ 69,304 15,539
A. BALANCE SHEETS						
Population	889	1,045	28,439	394	1,664	ville 1,253
		River		worth	1	27:110

974	217	1,187	373	3,286	559	259	3,031	237
6,172	3,842	9,482	1,121	68,559	6,444	7,165	40,721	2,252
61,520	19,222	114,387	21,437	370,480	42,237	23,396	278,250	16,954
4,284	1,006	6,311	1,384	21,900	1,904			
3,025	568	6,833	16	212	317 1,964	19	12,473	· 1,382
5,097 7,890	1,872 1,417	12,399 9,971	1,844	33,969	6,717	1,907	19,610	1,876
F.00*	1.070	12 300	749	25,762	4,156	2,177	23,043	1,971
41,224	14,359	78,873	17,444	288,637	29,083	17,828	223,124	11,306
67,692	23,064	123,869	22,558	439,039	48,681	30,561	318,971	19,206
67,616 76	22,456 608	122,820 1,049	21,643 915	437,390 1,649	47,108 1,573	29,956 605	316,360 2,611	19,202
225,182	81,865	455,971	100,689	1,184,076	136,769	118,110	1,043,015	102,116
111,161	39,952	193,000	75,509	752,585	83,405	67,738	477,481	40,958
989	334	903						391
95,822	30,818	127,827	70,560	646,591	71,210	60,871	439,298	30,476
14,350	8,800	64,270	4,949	105,994	12,195	6,867	38,183	10,091
73,553	32,861	195,250	24,298	419,242	41,749	50,110	556,909	57,926
73,113 440	32,861	195,224 26	24,298	419,242	41,749	49,974 136	556,309 600	57,911 15
40,468	9,052	67,721	882	12,249	11,615	262	8,625	3,232
4,045 2,423	2,571 336	256 8,265	208	12,249	1,476	156	7,045	622
34,000	6,145	59,200	674		10,139	106	1,580	2 610
225,182	81,865	455,971	100,689	1,184,076	136,769	118,110	1,043,015	102,116
1,182 73,113	2,033 32,861	7,734 195,224	24,298	15,142 419,242	11,882 41,749	199 49,974	19,312 556,309	223 57,911
412	2,016	2,132		412		115	409	211
770	17	5,602		14,730	11,882	84	18,903	12
6,728	12,564	17,219	23,457	106,976	2,946	27,797	62,867	4,015
6,126	9,049 3,000 515	15,126 2,093	5,167 18,000 290	67,905 10,000 29,071	2,816	12,149 12,500 3,148	20,058 34,663 8,146	3,373
144,159	34,407	235,794	52,934	642,716	80,192	40,140	404,527	39,967
\$ 174,593 30,434	\$ 40,197 5,790	\$ 277,065 41,271	\$ 59,496 6,562	\$ 818,147 175,431	\$ 88,932 <i>8,740</i>	\$ 51,941 11,801	\$ 495,380 90,853	\$ 51,115 11,148
2,744	534	2,980	876	9,338	1,256	748	8,302	596

			1			
Municipality	Cookstown	Cottam	Courtright	Creemore	Dashwood	Deep River
Population	673	630	551	870	413	4,789
A. BALANCE SHEETS						
FIXED ASSETS	\$	\$	\$	s	\$	\$
Plant and facilities at cost	46,854	Φ 50,945	24,922	46,782	26,785	530,503
Accumulated depreciation	7,923	11,717	4,751	6,580	4,260	89,028
Net fixed assets	38,931	39,228	20,171	40,202	22,525	441,475
Cash on hand and in bank	11,176	4,609	2,104	79	2,797	20,375
Investment in government securities		3,000	4,000	10,000		
Accounts receivable	633	365	184	1,195	167	2,159
Total current assets OTHER ASSETS	11,809	7,974	6,288	11,274	2,964	22,534
Inventory of stores		129				4,102
Sinking fund on local debentures						
Miscellaneous	• • • • • • • • • • • • • • • • • • • •	188	2,830	•••••	********	6,367
Total other assets		317	2,830			10,469
Equity in Ontario Hydro Systems	25,075	21,261	20,833	45,700	33,165	11,594
	75,815	68,780	50,122	97,176	58,654	486,072
LIABILITIES						
Debentures outstanding		2,500				189,000
Accounts payable	145	84	3,500	12	102	1,540
Other	575	811	427	591		9,599
Total liabilities	720	3,395	3,927	603	102	200,139
Equity in Ontario Hydro Systems	25,075	21,261	20,833	45,700	33,165	11,594
Other	94	26	80	58		
Total reserves	25,169	21,287	20,913	45,758	33,165	11,594
Debentures redeemed Local sinking fund	12,000	11,500	8,138	2,824	3,400	6,000
Accumulated net income invested in					• • • • • • • • • •	
plant or held as working funds.	37,926	32,234	17,111	47,991	21,836	268,339
Frequency standardization expense						,
charged this year		364	33		151	
Total capital	49,926	44,098	25,282	50,815	25,387	274,339
	75,815	68,780	50,122	97,176	58,654	486,072
P. OPERATING COLUMN						
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	18,977	16,145	8,406	25,177	16.076	165 140
Other	193	92	238	457	16,076	165,142 1,387
						1,567
Total revenue	19,170	16,237	8,644	25,634	16,078	166,529
EXPENSE						
Power purchased	12,397	9,082	6,326	17,334	11,481	96,091
Local generation	1 226	405				
Operation and maintenance	1,226	495	577	2,294	691	11,601
Fixed charges—interest and principal	1,133	1,667 624	925 136	1,668	1,441	18,494
-depreciation	1,205	1,400	651	1,162	695	15,120 13,415
—other				1,102		13,413
Total expense	15,961	13,268	8,615	22,458	14,310	154,721
Net income or net expense	3,209	2,969	29	3,176	1,768	11,808
Number of customers	248	227	104	250	-	
customets	248	237	194	358	179	1,320

Delaware Delhi									
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Delaware	Delhi	Deseronto	Dorchester	Drayton	Dresden	Drumbo	Dublin	Dundalk
25,086 28,3450 114,532 54,195 50,249 17,775 28,589 30,385 51,020 17,943 232,494 88,635 42,118 41,543 154,018 18,661 23,380 39,336 2,867 200 5,388 3,070 5,751 4,384 2,415 3,661 12,234 6,346 2,958 2,600 553 874 4,700 1,147 145 727 9,213 13,158 24,078 5,105 12,625 30,174 9,062 4,906 19,463	411	3,317	1,819	865	616	2,174	375	271	854
25,086 28,3450 114,532 54,195 50,249 17,775 28,589 30,385 51,020 17,943 232,494 88,635 42,118 41,543 154,018 18,661 23,380 39,336 2,867 200 5,388 3,070 5,751 4,384 2,415 3,661 12,234 6,346 2,958 2,600 553 874 4,700 1,147 145 727 9,213 13,158 24,078 5,105 12,625 30,174 9,062 4,906 19,463									
25,086 28,3450 114,532 54,195 50,249 17,775 28,589 30,385 51,020 17,943 232,494 88,635 42,118 41,543 154,018 18,661 23,380 39,336 2,867 200 5,388 3,070 5,751 4,384 2,415 3,661 12,234 6,346 2,958 2,600 553 874 4,700 1,147 145 727 9,213 13,158 24,078 5,105 12,625 30,174 9,062 4,906 19,463			Φ.	d)					6
7,143 50,956 23,897 12,077 8,706 23,757 9,928 7,005 11,684 17,943 232,494 88,635 42,118 41,543 154,018 18,661 23,380 39,336 2,867 200 5,388 3,070 5,751 4,384 2,415 3,661 12,234								-	
17,943 232,494 88,635 42,118 41,543 154,018 18,661 23,380 39,336 2,867 200 5,388 3,070 5,751 4,384 2,415 3,661 12,234 10,000 16,000 15,000 6,000 21,000 5,500 1,100 6,500 6,364 2,958 2,969 535 874 4,790 1,147 145 729									
2,867 200 5,388 3,070 5,751 4,384 2,415 3,661 12,234 6,346 2,958 2,690 535 874 4,790 1,147 145 729 9,213 13,158 24,078 5,105 12,625 30,174 9,062 4,906 19,463 70 29 1,175 1,500 70 12,883 10,016 127 10,704 1,500 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 1,500 2,383 2,333 2,23,038 2,039	7,143	50,956	25,897	12,077	8,706	23,757	9,928	7,005	11,684
6,346 2,958 2,690 535 874 4,790 1,147 145 729 9,213 13,158 24,078 5,105 12,625 30,174 9,062 4,906 19,463 12,854 10,016 127 9,509 70 29 1,195 1,500 70 12,883 10,016 127 10,704 1,500 17,519 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 7,308 964 85 2,439 2,266 121 130 1,500 95 7,338 7,470 1,257 5,165 2,593 26,000 241 1,555 350 17,549 93,810 53,924 31,604 </td <td>. 17,943</td> <td>232,494</td> <td>88,635</td> <td>42,118</td> <td>41,543</td> <td>154,018</td> <td>18,661</td> <td>23,380</td> <td>39,336</td>	. 17,943	232,494	88,635	42,118	41,543	154,018	18,661	23,380	39,336
6,346 2,958 2,690 535 874 4,790 1,147 145 729 9,213 13,158 24,078 5,105 12,625 30,174 9,062 4,906 19,463 12,854 10,016 127 9,509 70 29 1,195 1,500 70 12,883 10,016 127 10,704 1,500 17,519 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 7,308 964 85 2,439 2,266 121 130 1,500 95 7,338 7,470 1,257 5,165 2,593 26,000 241 1,555 350 17,549 93,810 53,924 31,604 </td <td>2.047</td> <td>200</td> <td>F 200</td> <td>2.070</td> <td>P 774</td> <td>4 204</td> <td>2 415</td> <td>2 661</td> <td>12 224</td>	2.047	200	F 200	2.070	P 774	4 204	2 415	2 661	12 224
6,346 2,958 2,690 535 874 4,790 1,147 145 729 9,213 13,158 24,078 5,105 12,625 30,174 9,062 4,906 19,463	2,867								
9.213 13,158 24,078 5,105 12,625 30,174 9,062 4,906 19,463									
70 29 127 9,509 70 12,883 10,016 127 10,704 1,500 17,549 93,610 53,924 31,604 46,094 129,221 26,807 20,614 53,982 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 2,039 2,383 23,038 7,308 964 85 2,439 2,268 121 130 1,500 95 33 4,467 1,172 343 325 2,841 111 55 255 7,338 7,470 1,257 5,165 2,593 26,000 241 1,555 350 17,549 93,810 53,924 31,604 46,094 129,767 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15	6,346	2,958	2,690	535	874	4,790	1,147	145	729
70 29 1,195 1,500 70 12,883 10,016 127 10,704 1,500 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 2,039 2,383 23,038 <td< td=""><td>9,213</td><td>13,158</td><td>24,078</td><td>5,105</td><td>12,625</td><td>30,174</td><td>9,062</td><td>4,906</td><td>19,463</td></td<>	9,213	13,158	24,078	5,105	12,625	30,174	9,062	4,906	19,463
70 12,883 10,016 127 10,704 1,500 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 2,039 2,383 23,038 7,308 964 85 2,439 2,268 121 130 1,500 95 30 4,467 1,172 343 325 2,841 111 55 255 7,338 7,470 1,257 5,165 2,593 26,000 241 1,555 350 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167		12,854	10,016		127	9,509			
70 12,883 10,016 127 10,704 1,500 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 2,039 2,383 23,038 7,308 964 85 2,439 2,268 121 130 1,500 95 30 4,467 1,172 343 325 2,841 111 55 255 7,338 7,470 1,257 5,165 2,593 26,000 241 1,555 350 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167						,			
17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982	70	29				1,195		1,500	
17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982	7.0	10.002	10.016		127	10.704		1 500	
44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781	1								
7.308 2,039 2,383 2,268 121 130 1,500 95 30 4,667 1,172 343 325 2,841 111 55 255 7,338 7,470 1,257 5,165 2,593 26,000 241 1,555 350 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 23 75 546 20,614 53,982 17,572 93,885 53,924 31,604 46,094 129,767 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167 106,472 36,976 42,039 138,677 24,699 21,910 52,722 125 1,862 165 163 1,288 1,717 121 19,865 250,990 <td< td=""><td>17,349</td><td>93,610</td><td></td><td>31,004</td><td></td><td></td><td>20,007</td><td></td><td></td></td<>	17,349	93,610		31,004			20,007		
7,308 964 85 2,439 325 2,841 111 55 255 7,338 7,470 1,257 5,165 2,593 26,000 241 1,555 350 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 17,572 93,885 53,924 31,604 46,094 129,767 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167 106,472 36,976 42,039 138,677 24,699 21,910 52,722 125 1,862 165 163 1,288 1,717 121 19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 1	44,775	352,345	176,653	78,827	100,389	324,117	54,530	50,400	112,781
7,308 964 85 2,439 325 2,841 111 55 255 7,338 7,470 1,257 5,165 2,593 26,000 241 1,555 350 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 17,572 93,885 53,924 31,604 46,094 129,767 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167 106,472 36,976 42,039 138,677 24,699 21,910 52,722 125 1,862 165 163 1,288 1,717 121 19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 1				Į					
1,308		2,039		2,383		23,038		1	
30 4,467 1,172 343 325 2,841 111 55 255 7,338 7,470 1,257 5,165 2,593 26,000 241 1,555 350 17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 17,572 93,885 53,924 31,604 46,094 129,767 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167 106,472 36,976 42,039 138,677 24,699 21,910 52,722 125 1,862 165 163 1,288 1,717 121 19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 1	7,308	964	85	2,439	2,268	121	130		
17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 17,572 93,885 53,924 31,604 46,094 129,767 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167 106,472 36,976 42,039 138,677 24,699 21,910 52,722 125 1,862 165 163 1,288 1,717 121 19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 <td></td> <td>4,467</td> <td>1,172</td> <td>343</td> <td>325</td> <td>2,841</td> <td>111</td> <td>55</td> <td>255</td>		4,467	1,172	343	325	2,841	111	55	255
17,549 93,810 53,924 31,604 46,094 129,221 26,807 20,614 53,982 17,572 93,885 53,924 31,604 46,094 129,767 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167 106,472 36,976 42,039 138,677 24,699 21,910 52,722 125 1,862 165 163 1,288 1,717 121 19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 <td>7.220</td> <td>7 470</td> <td>1 257</td> <td>5 165</td> <td>2 503</td> <td>26,000</td> <td>241</td> <td>1.555</td> <td>350</td>	7.220	7 470	1 257	5 165	2 503	26,000	241	1.555	350
2.3 75 546 546	7,338	7,470	1,231	3,103	2,393	20,000		2,000	
23 75 546 546	17 540	03.810	53 924	31.604	46,094	129,221	26,807	20,614	53,982
17,572 93,885 53,924 31,604 46,094 129,767 26,807 20,614 53,982 4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167 106,472 36,976 42,039 138,677 24,699 21,910 52,722 125 1,862 165 163 1,288 1,717 121 19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287									
4,000 82,961 15,000 4,917 9,500 28,385 4,500 6,200 5,727 15,740 166,167 106,472 36,976 42,039 138,677 24,699 21,910 52,722 125 1,862 165 163 1,288 1,717 121 19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,007 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469									
15,740	17,572	93,885	53,924	31,604	46,094	129,767	26,807	20,614	53,982
15,740		00.064	45,000	4.017	0.500	28 385	4.500	6.200	5.727
125 1,862 165 163 1,288 1,717 121 19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2,111	4,000	82,961	15,000	4,917	9,500	20,000	2,000		
125 1,862 165 163 1,288 1,717 121 19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2,111									
19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 1 1 709 6,950 3,126 1,457 1,300 3,950 565 854 <td>15,740</td> <td>166,167</td> <td>106,472</td> <td>36,976</td> <td>42,039</td> <td>138,677</td> <td>24,699</td> <td>21,910</td> <td>52,722</td>	15,740	166,167	106,472	36,976	42,039	138,677	24,699	21,910	52,722
19,865 250,990 121,472 42,058 51,702 168,350 27,482 28,231 58,449 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 1 1 709 6,950 3,126 1,457 1,300 3,950 565 854 <td></td> <td></td> <td></td> <td></td> <td>1.50</td> <td>4 000</td> <td>1717</td> <td>121</td> <td></td>					1.50	4 000	1717	121	
19,865 250,990 121,42 42,036 31,162 250,400 112,781 44,775 352,345 176,653 78,827 100,389 324,117 54,530 50,400 112,781 14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 2,241 1,457 1,300 3,950 565	125	1,862		165	103	1,288	1,/1/	121	
14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 1,008 2,526 709 6,950 3,126 1,457 1,300 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775	19,865	250,990	121,472	42,058	51,702	168,350	27,482	28,231	58,449
14,067 135,572 51,458 20,253 19,992 88,134 11,983 11,880 32,501 33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 1 1 709 6,950 3,126 1,457 1,300 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775	44 775	352 345	176 653	78.827	100,389	324,117	54,530	50,400	112,781
14,067 133,372 31,438 23,202 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 709 6,950 3,126 1,457 1,300 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775	41,770	002,010				1			
14,067 133,372 31,438 23,202 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 709 6,950 3,126 1,457 1,300 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775									
14,067 133,372 31,438 23,202 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 709 6,950 3,126 1,457 1,300 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775								44.000	20 504
33 2,920 1,116 176 287 4,273 330 38 230 14,100 138,492 52,574 20,429 20,279 92,407 12,313 11,918 32,731 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 3,856 1 3,421 709 6,950 3,126 1,457 1,300 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775	14,067	135,572	51,458						
14,100 138,492 52,374 20,425 20,227 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 3,856 1 854 1,421 709 6,950 3,126 1,457 1,300 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775		2,920	1,116	176	287	4,273	330	38	230
14,100 138,492 52,374 20,425 20,227 9,215 86,581 33,452 13,377 13,287 54,646 9,411 8,276 20,262 670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 3,856 1 854 1,421 709 6,950 3,126 1,457 1,300 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775		400.00	FO 551	20, 420	20.279	92 407	12.313	11.918	32,731
9,215 86,581 33,452 15,377 13,687 33,452 33,856 1 33,856 1 33,856 1 33,856 1 33,856 34,451 33,452 33,856 34,451 33,452 33,452 <td>14,100</td> <td>138,492</td> <td>52,5/4</td> <td>20,429</td> <td>20,217</td> <td>72,237</td> <td></td> <td></td> <td></td>	14,100	138,492	52,5/4	20,429	20,217	72,237			
9,215 86,581 33,452 15,377 13,687 33,452 33,856 1 33,856 1 33,856 1 33,856 1 33,856 34,451 33,452 33,856 34,451 33,452 33,452 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.444</td> <td>0.076</td> <td>20.262</td>							0.444	0.076	20.262
670 13,010 6,200 2,475 1,469 10,825 404 324 3,747 1,096 11,860 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 1 709 6,950 3,126 1,457 1,300 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775	9,215	86,581			1				20,202
670 13,010 6,200 7,475 1,324 1,827 15,267 1,152 1,008 2,526 2 2,111 244 6 3,856 1 3,856 1 3,856 1 3,950 565 854 1,421 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775									3,747
1,096 11,860 7,475 244 6 3,856 1				1	4 000				2,526
2 2,111 709 6,950 3,126 1,457 11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775 380 166 110 414									
11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775									
11,692 120,512 50,253 18,877 17,889 88,544 11,533 10,462 27,956 2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775		0,930	1						
2,408 17,980 2,321 1,552 2,390 3,863 780 1,456 4,775		120.512	50,253	18,877	17,889	88,544	11,533	10,462	27,956
2,408 17,980 2,321 1,332 2,330 880 166 110 414						3.863	780	1,456	4,775
	2,408	17,980	2,321	1,552	2,370	-	_	-	414
	136	1,307	633	325	259	880	166	110	414

Municipality	Dundas	Dunnville	Durham	Dutton	East York	Eganville
Population	. 12,626	5,212	2,075	777	Twp. 67,262	1,549
A. BALANCE SHEETS						1
FIXED ASSETS	\$	\$	\$	\$		
Plant and facilities at cost		349,834	139,270	41,858	3 700 066	\$ 150 100
Accumulated depreciation		64,084		13,143	3,788,866 540,873	159,182 36,139
Net fixed assets	710,170	285,750	123,776	28,715	3,247,993	123,043
CURRENT ASSETS Cash on hand and in bank	16,510	34,257	18,609	3,758	128,537	7,089
Investment in government securities		01,201	4,000	5,500	350,000	10,000
Accounts receivable		6,714	1,494	1,551	155,109	311
Total current assets	33,658	40,971	24,103	10,809	633,646	17,400
Inventory of stores		32,223	1,068		31,694	2,422
Sinking fund on local debentures					73,903	
Miscellaneous	8,095	1,037			7,788	1,993
Total other assets	19,405	33,260	1,068		113,385	4,415
Equity in Ontario Hydro Systems	563,930	295,129	121,629	67,299	1,940,694	6,932
	1,327,163	655,110	270,576	106,823	5,935,718	151,790
LIABILITIES						
Debentures outstanding		54,900			639,017	47,036
Accounts payable		1,387	1,037	281	185,012	
Other	16,450	7,628	1,091	307	30,180	
Total liabilities	306,899	63,915	2,128	588	854,209	47,036
Equity in Ontario Hydro Systems	563,930	295,129	121,629	67,299	1,940,694	6,932
Other					9,254	
Total reserves	563,930	295,129	121,629	67,299	1,949,948	6,932
Debentures redeemed Local sinking fund	83,400	85,600	25,324	8,407	638,868 73,903	52,963
Accumulated net income invested in					73,903	
plant or held as working funds.	369,234	208,460	121,495	32,350	2,417,220	44,859
Frequency standardization expense charged this year	3,700	2,006		1,821	1,570	
Total capital	456,334	296,066	146,819	38,936	3,131,561	97,822
	1,327,163	655,110	270,576	106,823	5,935,718	151,790
				100,020	0,700,710	131,770
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	376,832	225,700	87,251	22,024	1,813,935	52,331
Other	1,527	165	782	230	43,166	563
Total revenue	378,359	225,865	88,033	22,254	1,857,101	52,894
EXPENSE						
Power purchased	222,826	141,437	54,125	16,119	1,217,197	16,439
Local generation						11,483
Operation and maintenance	38,521	22,281	10,114	2,380	135,759	-3,032
Administration	21,707	12,423	5,971	2,037	165,429	5,442
Fixed charges—interest and principal —depreciation	17,338	5,396	2 200	4	77,419	7,035
—other	19,597	9,009	3,209	844	89,430	4,169
Total expense				24 204		
	319,989	190,546	73,419	21,384	1,685,234	47,600
Net income or net expense	58,370	35,319	14,614	870	171,867	5,294
Number of customers	3,455	1,903	808	346	22,107	559

	1	1		1			1	
Elmira	Elmvale	Elmwood	Elora	Embro	Erieau	Erie Beach	Erin	Essex
2,939	925	V.A.	1,479	562	462	132	1,005	3,442
\$ 312,006 70,569	\$ 64,317 16,955	\$ 22,865 6,461	\$ 96,899 30,618	\$ 42,934 14,295	\$ 76,486 10,913	\$ 23,239 1,900	\$ 52,847 5,048	\$ 256,352 54,868
241,437	47,362	16,404	66,281	28,639	65,573	21,339	47,799	201,484
19,204 2,116	7,663 9,876 555	2,402 8,000 84	17,627	5,126 6,000 1,057	5,302 7,760		4,644 5,112	15,811
21,320	18,094	10,486	19,034	12,183	1,094	557	10,371	3,884
1,258	3,520	10,400	138		86	30		19,695
665	46		163		2,970	738	258	3,583
1,923 318,061	3,566 56,472	19,047	301 130,668	42,331	3,056 35,393	768 6,523	258 12,766	3,903 143,509
582,741	125,494	45,937	216,284	83,153	118,178	29,187	71,194	368,591
4.406		400	5,500		12,504	3,724	5,075	8,400
1,186 2,306	717 585	106	431 1,334	378 100	1,073	2,357 262	404 762	28,741 2,055
3,492	1,302	161	7,265	478	13,577	6,343	6,241	39,196
318,061	56,472 50	19,047	130,668	42,331	35,393 22	6,523 81	12,766 50	143,509 500
318,061	56,522	19,047	130,668	42,331	35,415	6,604	12,816	144,009
37,169	6,544	6,106	14,500	7,500	9,379	4,577	9,425	29,100
								,
222,711	61,126	20,623	63,046	32,524	59,380	11,483	42,712	154,572
1,308	• • • • • • • •	*******	805	320	427	180	•••••	1,714
261,188	67,670	26,729	78,351	40,344	69,186	16,240	52,137	185,386
582,741	125,494	45,937	216,284	83,153	118,178	29,187	71,194	368,591
174,936 2,963	28,099 588	8,451 421	50,735 179	21,146 385	26,943 776	5,421	29,748 308	104,123
177,899	28,687	8,872	50,914	21,531	27,719	5,422	30,056	104,426
130,839	19,902	6,325	31,994	14,236	15,237	2,145	18,851	57,847
		597	6,823	853	3,026	683	2,746	14,297
10,179 13,066	2,204 3,064	1,021	2,918	1,691	2,810	962	3,679	12,531
8,678	1,847	682	656 1,788	1,370	1,987 1,849	645 478	914 1,166	2,434 6,570
8,078	1,047					,		
162,762	27,017	8,625	44,179	18,154	24,909	4,913	27,356	93,679
15,137	1,670	247	6,735	3,377	2,810	509	2,700	10,747
1,128	379	137	543	228	334	138	402	1,195

Municipality	Etobicoke	Exeter	Fergus	Finch	Flesherton	Fonthill
Population	Twp. 134,260	2,888	3,861	411	487	2,170
A. BALANCE SHEETS						
FIXED ASSETS	\$	\$	\$	\$	\$	s
Plant and facilities at cost	12,826,641	215,912	283,761	37,129	33,919	146,672
Accumulated depreciation	1,235,175	53,200	45,185	8,143	9,958	22,124
Net fixed assets	11,591,466	162,712	238,576	28,986	23,961	124,548
CURRENT ASSETS Cash on hand and in bank	90,373	10,250	24,018	2,002	5,753	1,945
Investment in government securities		10,000		10,000	16,000	
Accounts receivable	317,621	4,055	2,985	290	184	1,445
Total current assets OTHER ASSETS	1,044,994	24,305	27,003	12,292	21,937	3,390
Inventory of stores	167,066	1,382	605			178
Sinking fund on local debentures	394,970					
Miscellaneous	243,002	97	39			1,327
Total other assets	805,038	1,479	644			1,505
Equity in Ontario Hydro Systems	2,756,732	189,069	293,763	21,244	26,323	50,720
	16,198,230	377,565	559,986	62,522	72,221	180,163
LIABILITIES						
Debentures outstanding	7,460,200		25,000			19,100
Accounts payable	28,998	3,409		158	161	2,615
Other	308,513	2,365	3,514	178	164	8,799
Total liabilities	7,797,711	5,774	28,514	336	325	30,514
Equity in Ontario Hydro Systems	2,756,732	189,069	293,763	21,244	26,323	50,720
Other	12,053	179	. 338			
Total reserves	2,768,785	189,248	294,101	21,244	26,323	50,720
Debentures redeemed	1,318,595	20,000	50,000	7,000	5,831	42,400
Local sinking fund	394,970					
Accumulated net income invested in			. ,			
plant or held as working funds. Frequency standardization expense	3,903,826	161,344	185,833	33,942	39,742	56,529
charged this year	14,343	1,199	1,538	*******		
Total capital	5,631,734	182,543	237,371	40,942	45,573	98,929
	16,198,230	377,565	559,986	62,522	72,221	180,163
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	5,728,037	127,790	188,099	11,956	14,578	66,700
Other	30,253	2,532	374	509	728	1,311
Total revenue	5,758,290	130,322	188,473	12,465	15,306	68,011
EXPENSE						
Power purchased	3,694,788	83,270	135,540	8,812	12,123	41,212
Local generation						
Operation and maintenance	390,196	11,919	16,866	831	1,166	4,057
Administration	316,938	14,570	9,248	1,407	829	4,069
Fixed charges—interest and principal		10	3,067			4,756
—depreciation —other	268,174	5,985	6,787	1,011	1,041	3,539
Total expense	5,260,643	115,754	171,508	12,061	15,159	57,633
				404	147	10,378
Net income or net expense	497,647	14,568	16,965	404		
Number of customers	46,512	1,194	1,338	178	248	750

-,								
7,254	133,091	2,096	121,240	51,989	1,697	14,932	6,235	2,838
71,219	625,698	32,506	1,062,666	339,221	35,907	294,385	55,636	22,396
2,266	45,849	1,975	76,189	17,363	3,003	10,348	3,302	1,420
2.266	3,556	2,067	34,285 76,189	29,330	101 3,063	9,180 16,548	6,828	1,426
7,984	66,522	4,076	61,904	28,617	4,523	24,940	8,763	1,708
8,695	57,020	4,270	122,923	16,769	4,931	23,847	5,278	1,630
52,274	452,751	20,118	767,365	247,142	23,289	219,870	31,465	17,632
78,473	758,789	34,602	1,183,906	391,210	37,604	309,317	61,871	25,234
74,236 4,237	745,380 13,409	34,247 355	1,175,366 8,540	386,973 4,237	37,100 504	307,410 1,907	61,770 101	25,068 166
295,343	2,538,816	103,846	4,249,321	1,295,578	164,605	1,080,438	147,542	93,936
147,332	1,503,954	85,709	1,846,786	440,140	90,875	493,598	35,627	43,877
243	5,772		8,155	2,366	130	3,215		
123,732	1,142,698	65,709	1,164,629	372,774	70,632	362,225	21,423	33,083
23,357	355,484	20,000	674,002	65,000	20,113	134,588	14,204	10,794
146,031	983,093	16,778	2,203,556	467,573	72,960	486,750	35,586	49,762
1.0,031	562		6,773	500	301	525	100	25
1,980 146,031	51,769 982,531	1,359 16,778	198,979 2,196,783	387,865 467,073	770 72,659	100,090 486,225	76,329	297 49,737
1,348	39,725	1,359	53,070	34,745	575	11,275	4,219	
632	2,683 9,361		144,000 1,909	327,063 26,057	195	86,500 2,315	70,796 1,314	
295,343	2,538,816	103,846	4,249,321	1,295,578	164,605	1,080,438	147,542	93,936
146,031	982,531	16,778	2,196,783	467,073	72,659	486,225	35,486	49,737
5,156	45,277		87,682	40,404	830	12,612	11,729	********
5,156	45,033		85,691 1,991	40,039	798	4,210 8,402	3,730	
59,277	385,163	17,703	161,805	87,279	13,949	106,483	4,766	13,753
1,448	10,529	706	21,574	5,856	2,658	14,465	2,766	268
14,569 43,260	177,587 197,047	16,997	450 139,781	77,423 4,000	591 10,700	21,203 70,815	2,000	7,985 5,500
. 84,879	1,125,845	69,365	1,803,051	700,822	77,167	475,118	95,561	30,446
123,995 <i>39,116</i>	1,564,318 438,473	81,714 12,349	2,563,208 760,157	794,413 93,591	105,362 28,195	614,254 139,136	123,029 27,468	45,267 14,821
\$	\$	\$	\$	\$	\$	\$	\$	\$
2,056	19,888	1,560	26,292	9,330	1,118	6,119	846	Valley 651
Forest	Forest Hill	Frankford	Galt	Georgetown	Glencoe	Goderich	Grand Bend	Grand

Municipality	Granton	Gravenhurst	Grimsby	Guelph	Hagersville	Hamilton
Population	306	3,133	4,725	37,123	2,146	255,833
A. BALANCE SHEETS						
FIXED ASSETS	\$	\$	\$	\$	s	
Plant and facilities at cost	13,867	217,809	262,433	3,260,910	127,708	20,678,092
Accumulated depreciation	3,338	50,956	41,212	457,688	30,414	1,511,772
recumulated depreciation		30,230	71,515	757,000	30,727	1,511,772
Net fixed assets	10,529	166,853	221,221	2,803,222	97,294	19,166,320
CURRENT ASSETS						
Cash on hand and in bank	5,657	110	150	65,419	7,430	2,767,960
Investment in government securities		42,000		149,045	18,000	
Accounts receivable	212	4,269	5,102	22,835	1,533	1,344,496
	T.060	14 000			25.050	
Total current assets OTHER ASSETS	5,869	46,379	5,252	237,299	26,963	4,112,456
Inventory of stores		5,336		72,289	108	799,806
Sinking fund on local debentures		3,330				799,800
Miscellaneous	41		200	16,636		23,934
2.415ccilaticotts						20,701
Total other assets	41	5,336	200	88,925	108	823,740
Equity in Ontario Hydro Systems	24,834	183,018	103,844	2,594,390	264,581	25,558,237
	41,273	401,586	330,517	5,723,836	388,946	49,660,753
T LA DIL YOUNG						
LIABILITIES	1,115		,	1,459,000		1,180,000
Debentures outstanding Accounts payable	1,113	1.078	11,962	12,254	387	1,223,347
Other	20	2,330	4,670	78,830	1.340	115,269
other		2,000	1,070	70,000	1,340	110,207
Total liabilities	1,135	3,408	16,632	1,550,084	1,727	2,518,616
RESERVES						
Equity in Ontario Hydro Systems	24,834	183,018	103,844	2,594,390	264,581	25,558,237
Other	56	346		205		271,446
Total reserves	24,890	183,364	103,844	2,594,595	264,581	25,829,683
CAPITAL	E 500	44 270	05 244	226 000	8 000	6 505 275
Debentures redeemed Local sinking fund	5,528	44,279	85,344	336,000	8,000	6,505,275
Accumulated net income invested in						
plant or held as working funds.	9,617	170,535	122,632	1,230,631	121,687	14,723,224
Frequency standardization expense					<i>'</i>	
charged this year	103		2,065	12,526	7,049	83,955
Total capital	15,248	214,814	210,041	1,579,157	122,638	21,312,454
	41 272	401 594	220 517	E 732 926	200 046	49,660,753
	41,273	401,586	330,517	5,723,836	388,946	49,000,755
P ODED ATIMO OTHER PROPERTY.						
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	8,058	115,259	149,339	1,602,816	98,556	14,927,861
Other	16	3,974	291	11,207	867	177,922
				11,201		
Total revenue	8,074	119,233	149,630	1,614,023	99,423	15,105,783
EXPENSE						
Power purchased	4,346	87,651	99,713	1,156,324	69,669	11,213,231
Local generation Operation and maintenance	400	11 005	5 461	174 545	12 075	066 240
Administration	490 1,198	11,905 9,223	5,461 14,605	174,545 120,078	13,075	966,240 761,615
Fixed charges—interest and principal	307	9,223	14,005	86,335	5,632	113,428
—depreciation	395	5,823	6,417	74,752	3,544	458,353
—other		3,023				
Total expense	6,736	114,602	126,196	1,612,034	91,920	13,512,867
NT-4 to						
Net income or net expense	1,338	4,631	23,434	1,989	7,503	1,592,916
Number of customers	122	1 306	1,660	11 722	752	76 274
rumber of customers	122	1,306	1,000	11,733	753	76,274

157,625	5,606	71,661	6,519	6,210	25,588	6,811	213,655	11,461
					,	,		
9,325	654 3,585	4,569	2,117	2,185 2,382	21,132 12,388	3,026	7,561	987
15,239	5,748	6,691	4,378	3,721	30,024	2,496	8,916	897 98
13,260	6,143	7,599	1,952	1,425	21,702	1,119	17,879	1,004
119,801	49,997	52,802	13,668	16,591	85,306	31,450	179,299	8,475
164,852	71,733	83,495	28,634	32,514	196,140	44,909	238,709	11,939
160,347 4,505	70,474 1,259	82,310 1,185	28,135 499	30,930 1,584	195,131 1,009	44,419 490	234,565 4,144	11,800 139
638,211	269,129	292,548	96,461	158,359	506,496	161,780	956,343	56,229
300,325	127,581	166,927	70,241	91,501	250,100	91,596	434,017	22,608
	835	726				155	1,177	128
220,163	98,728	154,201	49,241	46,601	179,100	79,441	355,269	17,480
80,162	28,018	12,000	21,000	44,900	71,000	12,000	77,571	5,000
329,215	136,736	124,258	25,407	48,331	35,537	69,866	518,242	32,431
329,190 25	136,736	124,221 37	25,407	48,331	35,537	69,772 94	518,242	32,431
8,671	4,812	1,363	813	18,527	220,859	318	4,084	1,190
2,610	1,848	1,345	813	527	1,574 5,285	38 280	1,204 2,880	1,045
6,061	2,800 164	10		18,000	214,000	70	1 204	1.045
638,211	269,129	292,548	96,461	158,359	506,496	161,780	956,343	56,229
13,671 329,190	254 136,736	3,998 124,221	25,407	300 48,331	21,112 35,537	117 69,772	551 518,242	359 32,431
200	110			300	2,165	47	261	359
13,471	144	3,998			18,947	70	290	
74,227	17,249	17,764	26,245	49,065	16,605	12,456	114,820	4,151
7,187	2,273	1,032	412	717	4,192	4,000 1,729	59,865 30,638	3,000 358
40 67,000	8,081 6, 895	5,732 11,000	14,499 11,334	11,074 37,273	12,413	6,727	24,317	793
221,123	114,890	146,565	44,809	60,663	433,242	79,435	322,730	19,288
313,344 92,221	139,690 24,800	181,905 35,340	67,317 22,508	82,402 21,739	509,672 76,430	106,072 26,637	357,914 35,184	29,988 10,700
\$	\$	\$	\$	\$	\$	\$	\$	\$
4,282	1,639	1,837	896	1,288	8,483	906	4,304	391
								Highgate

Holstein	Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville
171	3,241	7,050	1,010	741	1,865
\$	\$	\$	\$	s	\$
11,961	202,265	560,844	193,798		124,646
2,772	38,023	109,934	7,668	13,731	22,606
9,189	164,242	450,910	186,130	41,790	102,040
2.424	26 710	100	1 160	F 200	6 116
				5,298	6,146 12,000
67	4,522	7,095	1,876	697	3,298
3,491	41,232	7,195	19,044	5,995	21,444
	6 500	17.053	400		0.606
	1				9,626
80	167	2,440			
80	6.675	19 492	400		9,626
10,258	266,909	677,931	34,130	53,078	103,643
23,018	479,058	1,155,528	239,803	100,863	236,753
		55,665			
		5,056		1,028	4,952
42	1,920	10,106	1,790	50	905
132	1,920	70,827	1,790	1,078	5,857
10,258	266,909	677,931	34,130	53,078	103,643
		346			373
10,258	266,909	678,277	34,130	53,078	104,016
2,762	15,697	104,135		10,500	19,507
	194,532	299,003	203.883	38.354	107,373
		,			201,010
		3,286		2,147	
12,628	210,229	406,424	203,883	46,707	126,880
23,018	479,058	1,155,528	239,803	100,863	236,753
5 361	145 495	316 391	45 547	18 008	76,466
32	1,019	1,778	752	9	790
5,393	146,514	318,169	46,299	18,107	77,256
3 874	94 309	207 770	26.066	13 375	53 503
3,014		201,110			53,503
235	15,450	34,166	2,591	580	10,234
679	9,269	25,553	6,956	2,095	5,532
1	F.042	6,462			84
			3,772		3,057
5,121	124,360	288,873	40,285	. 17,667	72,410
5,121		288,873	40,285	. 17,667	72,410
	124,360	288,873	6,014	440	72,410
	\$ 11,961 2,772 9,189 2,424 1,000 67 3,491 80 10,258 23,018 10,258 2,762 2,762 2,762 2,762 3,874 5,361 32 5,393 3,874 235 679	\$ \$ \$ 11,961 202,265 2,772 38,023 9,189 164,242 2,424 26,710 10,000 67 4,522 3,491 41,232 6,508 80 167 80 6,675 10,258 266,909 23,018 479,058 90 10,258 266,909 2,762 15,697 9,866 194,532 1,019 5,393 146,514 3,874 94,398 333 5,243 5,243	\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\	\$	\$

Kincardine	Kingston	Kingsville	Kirkfield	Kitchener	Lakefield	Lambeth	Lanark	Lancaster
2,701	47,611	3,016	126	69,622	2,031	1,794	880	626
\$	\$	\$	\$	\$	\$	\$	\$	\$
211,512	4,844,686	242,813	19,877	8,668,063	140,277	97,062	49,385	27,248
53,311	1,151,965	55,069	3,503	1,470,804	39,602	19,496	. 6,551	8,099
158,201	3,692,721	187,744	16,374	7,197,259	100,675	77,566	42,834	19,149
10,924	261,004	1,946	2,058	82,836	11,216	9,903		3,557
32,000	180,000	38,500	2,000		62,000		20,000	9,500
2,229	577,799	1,392	393	329,283	698	1,736	246	504
45,153	1,018,803	41,838	4,451	412,119	73,914	11,639	20,246	13,561
185	205,654	1,463		221,221	6,750		159	
32	62,964	205	800	14,083			337	
217	268,618	1,668	800	235,304	6,750		496	
193,446	1,630,258	171,275	11,375	5,359,566	82,400	50,758	27,570	22,251
397,017	6,610,400	402,525	33,000	13,204,248	263,739	139,963	91,146	54,961
	1,403,000			642,800		13,253		
228	288,196	11,340	2,385	292,173	005	4.067	3,447	181
946	20,445	3,860	6	113,489	985	1,067	306	473
1,174	1,711,641	15,200	2,391	1,048,462	985	14,320	3,753	654
193,446	1,630,258	171,275	11,375	5,359,566	82,400	50,758	27,570	22,251
40	107,902	376	200	224,481	605			
193,486	1,738,160	171,651	11,575	5,584,047	83,005	50,758	27,570	22,251
60,000	401,839	33,500	. 5,766	1,694,350	33,500	19,247	7,317	8,917
142,357	2,758,760	182,174	13,268	4,861,996	146,249	55,181	52,506	23,139
				15,393		457		
202,357	3,160,599	215,674	19,034	6,571,739	179,749	74,885	59,823	32,056
397,017	6,610,400	402,525	33,000	13,204,248	263,739	139,963	91,146	54,961
111 403	1,933,615	101,191	6,714	3,547,070	59,546	49,541	13,735	13,396
111,492 1,833	29,979	1,970	43	41,495	2,322	83	938	840
113,325	1,963,594	103,161	6,757	3,588,565	61,868	49,624	14,673	14,236
83,478	1,166,685	64,760	3,366	2,046,029	37,477	30,622	9,497	8,342
13,673	189,656	10,930	1,037	386,012	5,974	2,032	1,277	675
6,336	232,670	14,311	588	218,599	8,346	3,719	1,552	2,036
	141,083	242		194,347		2,711		
5,922	129,553	6,342	514	183,140	4,032	2,452	1,099	494
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
109,409	1,859,647	96,585	5,505	3,028,127	55,829	41,536	13,425	11,547
3,916	103,947	6,576	1,252	560,438	6,039	8,088	1,248	2,689
1,177	15,137	1,247	96	22,229	713	580	323	196
2,277	30,20							

Municipality	Leamington	Lindsay	Listowel	London	London Twp.	Long Branch
Population	8,453	10,404	3,613	100,002	V. A.	10,728
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 582,158 136,659	. \$ 868,659 156,283	\$ 349,958 110,081	\$ 9,655,306 2,439,336	\$ 142,252 30,135	\$ 578,082 53,578
Net fixed assets	445,499	712,376	239,877	7,215,970	112,117	524,504
CURRENT ASSETS Cash on hand and in bank Investment in government securities Accounts receivable	6,329 2,000 6,208	21,422 28,995 3,627	34,236 20,000 2,918	271,281 306,500 457,082	14,433	7,365 3,000 11,192
Total current assets OTHER ASSETS	14,537	54,044	57,154	1,034,863	20,519	21,557
Inventory of stores	22,837	17,060	482	324,282		
Miscellaneous	77		356	9,776	253	
Total other assets Equity in Ontario Hydro Systems	22,760 441,012	17,060 566,835	838 322,185	334,058 8,564,451	253 114,222	291,352
	923,808	1,350,315	620,054	17,149,342	247,111	837,413
LIABILITIES Debentures outstanding	27,500 176	68 7,543	47,378 250 5,152	443,000 330,668 99,847	22,231 31 2,449	37,968 9,365
Other	10,065					
Total liabilities	37,741	7,611	52,780	873,515	24,711	47,333
Equity in Ontario Hydro Systems Other	441,012 533	566,835 18,206	322,185	8,564,451 287,065	114,222	291,352 1,147
Total reserves	441,545	585,041	322,185	8,851,516	114,222	292,499
CAPITAL Debentures redeemed	58,500	130,000	65,812	1,788,900	29,536	40,305
Local sinking fund Accumulated net income invested in plant or held as working funds. Frequency standardization expense	383,122	627,663	177,820	5,627,094	77,999	454,945
charged this year	2,900		1,457	8,317	643	2,331
Total capital	444,522	757,663	245,089	7,424,311	108,178	497,581
	923,808	1,350,315	620,054	17,149,342	247,111	837,413
B. OPERATING STATEMENTS						
REVENUE Sales of electric energy Other	334,639 1,863	411,026 19,728	155,541 1,259	3,881,312 125,893	80,038 604	363,042 193
		430,754	156,800	4,007,205	80,642	363,235
Total revenue	336,502	430,734	130,800	4,007,203	30,042	303,233
Power purchased	224,035	257,359	110,839	2,341,823	57,761	243,320
Local generation Operation and maintenance	24,752	47,620	15,393	424,599	4,036	30,299
Administration	35,624	41,943	10,193	356,024	7,903	30,484
Fixed charges—interest and principal			6,518	45,297	3,017	3,260
—depreciation —other	15,242	23,030	6,468	269,118	3,822	12,690
Total expense	303,635	369,952	149,411	3,436,861	76,539	320,053
Net income or net expense	32,867	60,802	7,389	570,344	4,103	43,182
Number of customers	3,273	3,695	1,459	32,319	958	4,108

2,111	2,164	2,086	931	3,433		1,575		
2,628 2,102	1		2	3	1,925 609	1,573	7,494 6,564	1,595
2,878	1,175 2,072	2,346 3,774	216 1,444	1,800 4,141	545 644	2,648 1,723	7,454 10,956	5,281 3,784
11,793	21,874	27,074	10,787	29,545	3,200	23,527	97,657	26,915
24,876	32,163	39,873	16,477	43,640	6,950	33,009	139,480	45,382
24,557 319	31,787 376	39,598 275	16,196 281	43,149 491	6,773 177	33,002 7	138,856 624	45,030 352
73,909	131,004	175,324	73,484	194,606	31,746	110,043	347,672	105,734
46,642	62,178	90,731	31,560	139,276	12,519	61,348	178,879	66,841
	322		271				246	
39,642	50,642	73,117	26,794	125,276	5,319	54,978	160,180	51,749
7,000	11,214	17,614	4,495	14,000	7,200	6,370	18,453	15,092
5,828	68,131	83,381	41,697	54,244	2,423	47,706	108,463	37,823
5,828	68,131	83,101 280	41,697	54,244	2,423	47,706	108,163 300	37,823
21,439	695	1,212	227	1,086	16,804	989	60,330	1,070
21,000 109 330	26 669	1,212	220	1,086	16,800 4	422 567	50,363 5,262 4,705	1,070
73,909	131,004	175,324	73,484	194,606	31,746	110,043	347,672	105,734
1,878 5,828	68,131	1,300 83,101	41,697	4,555 54,244	451 2,423	47,706	1,622 108,163	1,766 37,823
1,878		1,300			351		264	4 766
	40			4,555	100		1,358	1,766
16,670	10,952	17,905	9,748	41,582	11,202	10,927	14,776	9,966
87	5,500 373	9,000 694	2,000 1,659	21,663 1,752	3,000 32	223	3,748	3,000 563
49,533	51,881	73,018	6,089	94,225	17,670 8,170	51,410	223,111	56,179 6,403
70,052 20,519	73,168 21,287	85,253 12,235	31,145 9,106	123,694 29,469	23,535 5,865	61,633 10,223	266,544 43,433	84,348 28,169
\$	\$	s	\$	\$	\$	s	s	\$
1,134	930	1,012	538	1,469	wan ·253	1,044	4,213	1,370

Municipality	Martintown	Maxville	Meaford	Merlin	Merrick-	Merritton
Population	430	821	3,660	537	ville 885	6-236
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 26,713 6,147	\$ 63,470 9,476	\$ 260,724 54,933	\$ 62,510 20,861	\$ 71,528 6,325	\$ 590,701 79,930
Net fixed assets	20,566	53,994	205,791	41,649	65,203	510,771
Cash on hand and in bank Investment in government securities Accounts receivable	7,095 1,608	4,323 1,500 570	27,567	8,471 593	3,522 4,415	38,098 87,000 6,966
Total current assets	8,703	6,393	29,601	9,064	7,937	132,064
OTHER ASSETS Inventory of stores Sinking fund on local debentures Miscellaneous			6,074	753	352	22,599
Total other assets	10,140	38,570	6,830 173,646	753 38,623	352 12,498	22,882 1,142,146
	39,409	98,957	415,868	90,089	85,990	1,807,863
LIABILITIES Debentures outstanding. Accounts payable. Other.	384	127	651 5,193	4 153	15,800 2,443 840	821 2,635
Total liabilities	482	127	5,844	157	19,083	3,456
RESERVES Equity in Ontario Hydro Systems Other	10,140 81	38,570 265	173,646 100	38,623	12,498	1,142,146
Total reserves	10,221	38,835	173,746	38,637	12,498	1,142,146
Debentures redeemed	5,347	13,642	47,725	13,122	9,200	32,186
Accumulated net income invested in plant or held as working funds. Frequency standardization expense charged this year	23,359	46,353	188,553	37,902	45,209	630,075
	,,,,,,,,,,			271		
Total capital	28,706	59,995	236,278	51,295	54,409	662,261
	39,409	98,957	415,868	90,089	85,990	1,807,863
B. OPERATING STATEMENTS REVENUE						
Sales of electric energyOther	10,072 67	23,363 236	140,710 1,919	18,556 3,181	24,336 109	792,100 4,949
Total revenue	10,139	23,599	142,629	21,737	24,445	797,049
EXPENSE						
Power purchased	5,133	16,354	99,243	11,174	14,841	668,384
Operation and maintenance	507 847	1,648 1,118	10,118 11,636	1,252 4,307	2,584 2,435	27,335 28,689
Fixed charges—interest and principal —depreciation	691	1,533	6,855	1 1,975	1,795 1,570	13,303
—other				1,975	1,570	13,303
Total expense	7,178	20,653	127,852	18,709	23,225	737,711
Net income or net expense	2,961	2,946	14,777	3,028	1,220	59,338
Number of customers	124	314	1,499	250	367	1,920

Midland	Mildmay	Millbrook	Milton	Milverton	Mimico	Mitchell	Moorefield	Morrisburg
8,394	847	842	5,148	1,083	15,516	2,147	318	1,905
\$	\$	\$	\$	s	\$	\$	\$	\$
672,777	43,873	52,602	497,525	79,787	897,800	225,240	22,463	207,919
231,099	5,566	9,881	76,123	15,503	204,077	54,859	5,815	20,818
444.670	20.005	10 701	404.400					
441,678	38,307	42,721	421,402	64,284	693,723	170,381	16,648	187,101
16,280	2,239	9,196	4,787	7,619	96,274	150	1,910	39,279
140,000	12,500	11,000		12,932	115,000	37,927	970	11,000
48,505	6	347	4,009	780	22,615	6,855	219	6,032
204,785	14,745	20,543	8,796	21,331	233,889	44,932	3,099	56,311
204,700	11,713	20,040	0,170	21,001	233,009	44,932	3,099	30,311
9,219		983	3,997	45	7,162	10,237	20	5,463
4 004		1 100	604	240	4.660	245	450	
1,991		1,189	604	240	1,669	315	456	
11,210		2,172	4,601	285	8,831	10,552	476	5,463
803,499	27,262	19,039	386,003	140,812	601,149	174,979	23,060	53,734
1,461,172	80,314	84,475	820,802	226,712	1,537,592	400,844	43,283	302,609
			75,854	12,400	87,000	17,300		
2,199	6		470		31,924	367	1,525	500
2,730	261	896	7,073	241	43,544	1,352	502	2,788
4,929	267	896	83,397	12,641	162,468	19,019	2,027	3,288
803,499	27,262	19,039	386,003	140,812	601,149	174,979	23,060	53,734
441			454		823	860		
803,940	27,262	19,039	386,457	140,812	601,972	175,839	23,060	53,734
111,945	12,303	9,000	48,317	12,100	164,074	29,995	4,500	31,636
		FF 540	201.017	60.667	606 224	175 271	13,606	213,951
540,358	40,482	55,540	301,017	60,667	606,224	175,271	13,000	213,931
			1,614	492	2,854	720	90	
652,303	52,785	64,540	350,948	73,259	773,152	205,986	18,196	245,587
1,461,172	80,314	84,475	820,802	226,712	1,537,592	400,844	43,283	302,609
1,401,172	30,314	01,170	020,002					
309,346	24,601	22,116	246,786	52,037	433,658	98,950	9,824	75,326
10,214	487	545	1,508	638	12,637	2,482	45	2,550
319,560	25,088	22,661	248,294	52,675	446,295	101,432	9,869	77,876
227,859	17,591	14,786	170,692	35,909	282,075	62,891	7,325	45,775
221,839	17,391	14,700	1,0,022					
32,018	2,593	1,769	13,747	5,256	42,449	8,397	1,007	10,768
22,054	1,895	2,499	21,486	4,762	60,678	10,656	611	13,782
		4.226	7,149	1,288	9,575	1,843 5,964	638	3,661
10 704	1,058	1,336	11,506	2,057	23,890	3,904		3,001
12,794								
		20.200	224 590	49 272	418.667	89,751	9,583	73,986
	23,137	20,390	224,580	49,272	418,667	89,751	9,583	
	23,137	20,390	224,580	3,403	27,628	89,751	9,583 286	3,890

Section Sect	Number of customers	355	9,438	1,670	204	140	4,505
Section Sect	Net income or net expense						12,891
Section Sect	-						40.004
Section Sect		1					932
Section Sect							854
## STATEST S S S S S S S S S	Administration	2,720					1,759
A. BALANCE SHEETS S	Operation and maintenance			l.			470
Section Sect	Local generation						8,876
## STATES \$ \$ \$ \$ \$ \$ \$ \$ \$		10 700	60.005	104.00			
## A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost.	-	21,285	89,398	178,259	11,114	7,411	17,396
## A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. 52,964 166,289 326,847 13,007 28,518 48,33 Accumulated depreciation 9,530 34,692 65,971 13,006 4,872 16,22 Net fixed assets. 43,434 131,597 260,876 23,071 23,646 32,12 CURRENT ASSETS Cash on hand and in bank. 13,527 13,588 100 825 240 4,12 Investment in government securities 20,000 27,000 21,200 5,000 3,00 Accounts receivable. 506 980 26,082 256 289 22 Total current assets. 14,033 34,568 53,182 22,281 5,529 7,33 OTHER ASSETS Inventory of stores. 1,947 9,140 Sinking fund on local debentures. 475 100 4,202 2,331 Miscellaneous. 475 100 4,202 2,331 Total other assets. 475 2,047 13,342 2,23,31 23,664 2,825 6,96 ### States of the control of	-						
A. BALANCE SHEETS S S S S S S S S S	Other				,		17,301 95
Section Sect	REVENUE	24 222	05.334				
A. BALANCE SHETS		88,282	314,408	569,473	69,216	34,331	46,482
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	rotar capitar						34,855
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	-						
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	Frequency standardization expense						25,255
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. 52,964 166,289 326,847 36,077 28,518 48,33 4,602 65,971 13,006 4,872 16,20	Accumulated net income invested in						
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. 52,964 166,289 326,847 36,077 28,518 48,3 34,692 65,971 13,006 4,872 16,20	Debentures redeemed	4,220	21,627	70,000	15,504	7,253	9,600
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	Total reserves	30,434	146,196	242,073	23,864	2,825	6,966
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	Other					2,623	
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. 52,964 166,289 326,847 36,077 28,518 48,33 Accumulated depreciation 9,530 34,692 65,971 13,006 4,872 16,20 Net fixed assets. 43,434 131,597 260,876 23,071 23,646 32,17 CURRENT ASSETS Cash on hand and in bank 13,527 13,588 100 825 240 4,14 Investment in government securities 20,000 27,000 21,200 5,000 3,00 Accounts receivable 506 980 26,082 256 289 23 Total current assets. 14,033 34,568 53,182 22,281 5,529 7,33 OTHER ASSETS Inventory of stores 1,947 9,140 5,500 5,500 Sinking fund on local debentures Miscellaneous 475 100 4,202 2,331 5,529 7,33 Total other assets 475 2,047 13,342 2,331 2,331 2,331 2,331 2,331 2,331 2,331 3,340 146,196 242,073 23,864 2,825 6,96 88,282 314,408 569,473 69,216 34,331 46,48 LIABILITIES Debentures outstanding 15,000 9,747 4,40 Accounts payable 1,710 97 14,974 179 1,143 0,00 Accounts payab	RESERVES						
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. 52,964 166,289 326,847 36,077 28,518 48,33 Accumulated depreciation. 9,530 34,692 65,971 13,006 4,872 16,20 Net fixed assets. 43,434 131,597 260,876 23,071 23,646 32,12 CURRENT ASSETS Cash on hand and in bank. 13,527 13,588 100 825 240 4,14 Investment in government securities Accounts receivable. 506 980 26,082 256 289 23 Total current assets. 14,033 34,568 53,182 22,281 5,529 7,38 OTHER ASSETS Inventory of stores. 1,947 9,140 Sinking fund on local debentures. 475 100 4,202 2,331 Total other assets. 475 2,047 13,342 2,331 2,331 Equity in Ontario Hydro Systems. 30,340 146,196 242,073 23,864 2,825 6,96 88,282 314,408 569,473 69,216 34,331 46,48 LIABILITIES Debentures outstanding. 15,000 9,747 4,40 Accounts payable. 1,710 97 14,974 179 1,143	Total liabilities						4,661
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	Accounts payable	1,710		14,974	179	1,143	261
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. 52,964 166,289 326,847 36,077 28,518 48,33 Accumulated depreciation. 9,530 34,692 65,971 13,006 4,872 16,20 Net fixed assets. 43,434 131,597 260,876 23,071 23,646 32,12 CURRENT ASSETS Cash on hand and in bank. 13,527 13,588 100 825 240 4,12 Investment in government securities 20,000 27,000 21,200 5,000 3,00 Accounts receivable. 506 980 26,082 256 289 23 Total current assets. 14,033 34,568 53,182 22,281 5,529 7,38 OTHER ASSETS Inventory of stores. 1,947 9,140 Sinking fund on local debentures. Miscellaneous. 475 100 4,202 2,331 Total other assets. 475 2,047 13,342 2,331 2,331 Equity in Ontario Hydro Systems. 30,340 146,196 242,073 23,864 2,825 6,966 88,282 314,408 569,473 69,216 34,331 46,48	Debentures outstanding	15,000				9.747	4,400
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. 52,964 166,289 326,847 36,077 28,518 48,33 Accumulated depreciation. 9,530 34,692 65,971 13,006 4,872 16,20 Net fixed assets. 43,434 131,597 260,876 23,071 23,646 32,12 CURRENT ASSETS Cash on hand and in bank. 13,527 13,588 100 825 240 4,14 Investment in government securities 20,000 27,000 21,200 5,000 3,004 Accounts receivable. 506 980 26,082 256 289 23 Total current assets. 14,033 34,568 53,182 22,281 5,529 7,38 OTHER ASSETS Inventory of stores 1,947 9,140 22,331 23,331 Total other assets. 475 2,047 13,342 2,331 2,331 Total other assets. 475 2,047 13,342 2,331 2,331 Equity in Ontario Hydro Systems 30,340 146,196 242,073 23,864 2,825 6,96	LIABILITIES		014,408	307,473	09,216	34,331	46,482
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. 52,964 166,289 326,847 36,077 28,518 48,33 Accumulated depreciation. 9,530 34,692 65,971 13,006 4,872 16,20 Net fixed assets. 43,434 131,597 260,876 23,071 23,646 32,12 CURRENT ASSETS Cash on hand and in bank. 13,527 13,588 100 825 240 4,12 Investment in government securities Accounts receivable. 506 980 26,082 256 289 23 Total current assets. 14,033 34,568 53,182 22,281 5,529 7,38 OTHER ASSETS Inventory of stores. 1,947 9,140 Sinking fund on local debentures Miscellaneous. 475 100 4,202 2,331 Total other assets. 475 2,047 13,342 2,331	contains flydro bystems						6,966
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	Total other assets						
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	Miscellaneous:	475	1			2,331	
A. BALANCE SHEETS FIXED ASSETS \$ \$ \$ \$ \$ \$ Plant and facilities at cost	Inventory of stores						
A. BALANCE SHEETS FIXED ASSETS \$ \$ \$ \$ \$ \$ Plant and facilities at cost	Total current assets	14,033	34,568	53,182	22,281		7,388
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost. 52,964 Accumulated depreciation. 9,530 34,692 65,971 13,006 4,872 16,20 Net fixed assets. 43,434 131,597 260,876 23,071 23,646 32,12 CURRENT ASSETS	Investment in government securities		20,000	27,000	21,200	5,000	3,000
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	CURRENT ASSETS						4,149
A. BALANCE SHEETS FIXED ASSETS \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$							16,203
A. BALANCE SHEETS	Plant and facilities at cost	52,964	166,289	326,847	36,077	28,518	48,331
Population							
Des 1 d	Population	902	2,514	4,480	492	296	557
Municipality	Municipality		1	Napanee	Neustadt	Newboro	Newburgh

Newbury	Newcastle	New	N	3.7				
Newbury	riewcastie	Hamburg	Newmarket	New Toronto	Niagara	Niagara Falls	North York Twp.	Norwich
335	1,132	2,063	7,739	11,532	2,658	23,660	224,959	1,706
\$	s	s	\$	\$	s	\$	\$	\$
19,812	115,304	140,461	525,726	896,139	242,201	2,156,378	17,350,696	98.721
9,398	41,371	27,457	111,774	148,342	39,484	505,646	2,057,843	25,928
10,414	73,933	113,004	413,952	747,797	202,717	1 650 722	15 202 852	70.702
	10,755	115,004	713,932	141,191	202,717	1,650,732	15,292,853	72,793
5,857	3,597	12,348	71,372	141,080	9,414	53,652	412,733	49
6,500 450	10,500	15,000	0.022	30,000	10,000	55,000	10,000	7,500
430	1,273	2,089	8,923	15,470	4,186	45,884	129,936	3,515
12,807	15,370	29,437	80,295	186,550	23,600	154,536	552,669	11,064
	1 642	2.022		10.047	10.475	107.262	400.040	F 400
	1,643	2,022		19,947	12,475	107,363	482,948 326,889	5,198
	144	1,357	332	1,331	49	910	161,980	153
	1 707	2 270	222	21 270	12 524	100 272	071 017	E 251
15,771	1,787 36,625	3,379 172,207	332 184,429	21,278 1,970,732	12,524 147,705	108,273 2,141,907	971,817 3,513,180	5,351 127,338
38,992	127,715	318,027	679,008	2,926,357	386,546	4,055,448	20,330,519	216,546
	11,500	11,000	63,723		25,417		6,463,261	
12 100	686	802 277	603	480 18,986	19 2,487	43,911	260,143 635,056	5,996 1,416
	*******				2,107	10,711		
112	12,186	12,079	70,969	19,466	27,923	43,918	7,358,460	7,412
15,771	36,625	172,207	184,429	1,970,732	147,705	2,141,907	3,513,180	127,338
		34	3,300	800	404	566	13,935	150
	04.40#	470.044	407 700	1 071 520	148,109	2,142,473	3,527,115	127,488
15,771	36,625	172,241	187,729	1,971,532	140,109	2,142,473	3,327,113	127,400
9,754	14,000	21,729	31,193	8,000	55,090	690,243	2,211,216	13,756
							326,889	
14,104	64,904	111,328	388,532	924,427	154,044	1,172,090	6,869,119	66,858
,								
749		650	585	2,932	1,380	6,724	37,720	1,032
23,109	78,904	133,707	420,310	935,359	210,514	1,869,057	9,444,944	81,646
38,992	127,715	318,027	679,008	2,926,357	386,546	4,055,448	20,330,519	216,546
30,772	127,713	1 310,027	077,000	1 2,720,001				
			007 700	1 266 202	101 545	007 036	8,494,258	61,081
6,923	44,938	75,248 1,045	325,709 463	1,266,280 7,199	101,545 703	987,926 8,683	99,594	2,486
344	//1	1,045	403	1,177	, 55			
7,267	45,709	76,293	326,172	1,273,479	102,248	996,609	8,593,852	63,567
4,476	26,795	49,135	209,649	1,060,793	64,759	603,891	5,103,076	37,757
			47.014	25 005	15 622	135,348	620,038	8,845
567	5,059	5,969 4,946	17,814 18,198	35,895 53,096	15,623 7,886	69,948	720,035	6,668
525	4,851	1,480	6,429		2,568		617,479	139
467	1,994	3,587	14,107	22,465	6,041	59,312	385,229	2,552
6,035	38,699	65,117	266,197	1,172,249	96,877	868,499	7,445,857	55,961
1,232	7,010	11,176	59,975	101,230	5,371	128,110	1,147,995	7,606
	-		2.620	3,988	1,060	7,513	74,924	682
131	460	686	2,629	3,700	1,000	1,010		

Municipality	Norwood	Oakville	Oil Springs	Omemee	Orangeville	Orillia
Population	1,077	10,147	483	838	4,610	14,282
A. BALANCE SHEETS						
FIXED ASSETS	\$					
		\$	\$	\$	\$	\$
Plant and facilities at cost	97,503	1,181,610	58,365	64,158	276,672	4,307,972
Accumulated depreciation	26,080	211,862	19,608	20,161	59,194	856,396
Net fixed assets CURRENT ASSETS	71,423	969,748	38,757	43,997	217,478	3,451,576
Cash on hand and in bank	11,493	117,006	1,318	1,159	70	22,861
Investment in government securities	15,000		11,000	11,000	100	101,794
Accounts receivable	2,872	31,478	109	11	4,765	55,172
Total current assets	29,365	148,484	12,427	12,170	4,935	179,827
OTHER ASSETS Inventory of stores		47,550	634	2,991	5,392	74,161
Sinking fund on local debentures				_,		
Miscellaneous	3,970	7,103	2,386		140	1,300
Total other assets	3,970	54,653	3,020	2,991	5,532	75,461
Equity in Ontario Hydro Systems	36,341	237,701	70,623	21,268	210,529	79,012
		207,701	70,020		210,327	79,012
	141,099	1,410,586	124,827	80,426	438,474	3,785,876
LIABILITIES						
Debentures outstanding		337,000				889,000
Accounts payable		4,613	240	2,000	18,296	3,220
Other	874	40,285	40	219	2,893	15,063
		10,200			2,075	
Total liabilities	874	381,898	280	2,219	21,189	907,283
Equity in Ontario Hydro Systems	26 244	027 704	70.600	04.060	040 #00	WO 040
Other	36,341	237,701	70,623	21,268	210,529	79,012
		264		45	50	101,794
Total reserves	36,341	237,965	70,623	21,313	210,579	180,806
Debentures redeemed	55,100	87,202	16,721	12,000	25,594	1,573,000
Local sinking fund						
Accumulated net income invested in						
plant or held as working funds.	48,784	703,521	37,149	44,894	181,112	1,124,787
Frequency standardization expense						
charged this year			54	• • • • • • • • • • • • • • • • • • • •		
Total capital	103,884	790,723	53,924	56,894	206,706	2,697,787
	141,099	1,410,586	124,827	80,426	438,474	3,785,876
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	34,895	559,652	16,050	23,469	168,691	716,446
Other	517	7,795	1,585	570	467	6,282
Total revenue	35,412	567,447	17,635	24,039	169,158	722,728
EXPENSE						
Power purchased	20,994	331,679	10,407	14,384	116,700	158,778
Local generation						133,132
Operation and maintenance	2,369	34,240	2,547	4,288	10,804	108,913
Administration.	2,554	48,736	2,665	2,050	11,908	74,320
Fixed charges—interest and principal	1,000	34,872		30	849	100,165
—depreciation —other	2,847	29,665	1,141	1,213	7,346	81,289
ochei						
Total expense	29,764	479,192	16,760	21,965	147,607	656,597
Net income or net expense	5,648	88,255	875	2,074	21,551	66,131
Number of customers	400	2.552				
xtumber of customers	408	3,552	223	305	1,652	5,334

Orono	Oshawa	Otťawa	Otterville	Owen	Paisley	Palmerston	Paris	Parkhill
859	57,683	247,053		Sound				
639	37,003	247,033	729	17,549	768	1,577	5,759	1,115
s	s	s	\$	\$	\$	\$	\$	6
61,754	5,920,265	27,471,916	50,768					\$ 112.705
11,987	1,043,975	5,867,192	17,721	1,286,422 207,387	63,734 15,470	163,036 40,497	492,762 119,221	113,795 17,125
40.767	4.076.200	24 604 724						
49,767	4,876,290	21,604,724	33,047	1,079,035	48,264	122,539	373,541	96,670
557	83,460	92,495	1,891	25,037	11,062	2,381	8,681	4,447
10,000	598,351	543,000		143,151	8,000			6,000
326	254,794	791,877	565	52,139	268	2,163	4,534	2,584
10,883	936,605	1,427,372	2,456	220,327	19,330	4,544	13,215	13,031
2,465	111,824	433,076		47,724	44	9,611	425	2,281
40	10.764	100.220		7.10			4 404	
40	10,764	100,228	5	749			1,494	111
2,505	122,588	533,304	5	48,473	44	9,611	1,919	2,392
17,576	3,261,799	4,855,039	35,234	1,035,339	44,639	155,149	408,900	78,319
80,731	9,197,282	28,420,439	70,742	2,383,174	112,277	291,843	797,575	190,412
	391,000	5,797,000		45,000			93,500	9,200
1,789	240,082	749,257	31	78,624	586	15,352	1,412	2,835
330	82,518	882	179	20,041	372	636	2,457	623
2,119	713,600	6,547,139	210	143,665	958	15,988	97,369	. 12,658
17,576	3,261,799	4,855,039	35,234	1,035,339	44,639	155,149	408,900	78,319
	8,990	457,817	14	1,821		37	160	
17,576	3,270,789	5,312,856	35,248	1,037,160	44,639	155,186	409,060	78,319
						27.000	102 500	20 521
8,000	411,622	4,183,000	4,500	162,718	13,623	27,000	103,500	20,521
							100 500	70.400
53,036	4,801,271	12,377,444	30,402	1,039,631	53,057	92,909	186,582	78,480
			382			760	1,064	434
61,036	5,212,893	16,560,444	35,284	1,202,349	66,680	120,669	291,146	99,435
80,731	9,197,282	28,420,439	70,742	2,383,174	112,277	291,843	797,575	190,412
26,573	2,620,595	9,514,931	20,979	605,567	25,679	59,914	194,616	50,467
804	52,396	225,626	49	19,859	478	864	440	538
27,377	2,672,991	9,740,557	21,028	625,426	26,157	60,778	195,056	51,005
15,413	1,842,973	5,427,080	13,922	373,981	14,897	41,356	122,771	32,449
		213,622	076	72 222	1,991	5,377	19,893	4,912
3,127	161,245	910,238	976 1,776	72,222	3,020	7,053	12,597	5,159
5,189	168,329	678,641	35	8,871	3,020	62	8,728	1,047
1 544	31,870	543,079	1,632	30,236	1,806	4,312	13,741	2,745
1,544	145,751	685,365 14,316	1,032					
25,278	2,350,168	8,472,341	18,341	556,037	21,714	58,160	177,730	46,312
		1,268,216	2,687	69,389	4,443	2,618	17,326	4,693
2,099	322,823							497
347	18,541	84,416	285	6,081	324	616	1,952	1271

Municipality	Parry Sound	Pene- tanguishene	Perth	Peter- borough	Petrolia	Pickering
Population	6,070	4,692	5,579	45,248	3,649	1,754
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 821,014 195,567	\$ 272,939 83,358	\$ 345,244 98,478	\$ 5,068,308 1,116,919	\$ 298,442 83,585	\$ 107,891 16,102
Net fixed assets CURRENT ASSETS	625,447	189,581	246,766	3,951,389	214,857	91,789
Cash on hand and in bank Investment in government securities Accounts receivable	9,486 16,316 1,996	17,372 55,000 1,367	18,354 81,000 1,721	137,953 122,984	14,117 15,053 15,645	764 1,573
Total current assets OTHER ASSETS	27,798	73,739	101,075	260,937	44,815	2,337
Inventory of stores	1,950	344	8,737	64,280	15,799	
Miscellaneous		829	• • • • • • • •	4,808	566	3,465
Total other assets Equity in Ontario Hydro Systems	1,950 48,988	1,173 237,640	8,737 317,418	69,088 2,156,452	16,365 324,449	3,465 1,592
	704,183	502,133	673,996	6,437,866	600,486	99,183
LIABILITIES						
Debentures outstanding Accounts payable	71,309	462		978,600 130,268	3.685	76,000 1,674
Other	8,060	1,666	4,362	4,246	4,096	1,430
Total liabilities	79,369	2,128	4,362	1,113,114	7,781	79,104
Equity in Ontario Hydro Systems Other	48,988 146	237,640 913	317,418 159	2,156,452 1,376	324,449 14	1,592
Total reserves	49,134	238,553	317,577	2,157,828	324,463	1,592
Debentures redeemed	399,500	36,983	85,045	781,011	50,000	4,000
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	176,180	224,469	267,012	2,385,913	217,801	14,487
charged this year		• • • • • • • • • • • • • • • • • • • •			441	
Total capital	575,680	261,452	352,057	3,166,924	268,242	18,487
	704,183	502,133	673,996	6,437,866	600,486	99,183
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy Other	179,967 1,341	119,022 3,645	167,740 5,026	1,947,840 7,169	115,456 3,222	53,100 357
Total revenue	181,308	122,667	172,766	1,955,009	118,678	53,457
EXPENSE						
Power purchased	69,957 35,142	82,120	123,599	1,173,166	59,942	27,144
Operation and maintenance	20,293	14,825	13,548	226,583	18,743	2,255
Administration	24,580	10,651	20,491	150,155	19,525	3,570
Fixed charges—interest and principal —depreciation	6,066 16,038	8,407	5,976	93,831 134,146	8,701	6,298 2,473
-other						
Total expense	172,076	116,003	163,614	1,777,881	106,911	41,740
Net income or net expense	9,232	6,664	9,152	177,128	11,767	11,717
Number of customers	1,949	1,389	1,962	14,487	1,287	485

Picton	Plattsville	Point	Port	D(D . C . U			
Ticton	1 lattsville	Edward	Burwell	Port Colborne	Port Credit	Port Dalhousie	Port Dover	Port Elgin
5,072	477	2,688	722	14,936	6,445	3,337	3,080	1,692
. \$. \$	\$	\$	\$	\$	\$	\$	\$
405,822	44,347	241,925	71,563	966,560	588,420	224,623	277,145	175,147
102,210	1,671	46,812	26,255	79,744	77,397	20,633	66,301	24,336
303,612	42,676	195,113	45,308	886,816	511,023	203,990	210,844	150,811
,	# 400	40.444						
4,180 3,000	5,130 4,500	19,446 49,224	5,325	20,979 10,000	10,075	11,644	10,430	4,353
1,339	687	2,943	833	8,889	61,416 9,247	3,216	3,392	1,500 1,512
0.510	10.217	71 612	C 4 F D	20.060				
8,519	10,317	71,613	6,158	39,868	80,738	14,860	13,822	7,365
11,859	14	819	64	12,452	5,123	6,785	256	2,662
		583	1,171	10,087	3,715	485	561	
11,859 273,116	14 44,262	1,402 316,980	1,235 16,113	22,539 509,156	8,838 282,076	7,270 164,624	817 129,452	2,662 90,246
597,106	97,269	585,108	68,814	1,458,379	882,675	390,744	354,935	251,084
32,932			34,200	126,062	56,985	22,500	71,886	
5,763 11,359	3,518	4,671 1,624	57 3,266	9,317 11,670	9,791 21,154	1,009 2,949	466 8,179	1,144
11,557		1,021		11,070	21,101	2,717	0,1,7	
50,054	3,518	6,295	37,523	147,049	87,930	26,458	80,531	1,144
273,116	44,262	316,980	16,113	509,156	282,076	164,624	129,452	90,246
55		100			742	125		103
273,171	44,262	317,080	16,113	509,156	282,818	164,749	129,452	90,349
20.250	5,237	17,000	5,800	216,938	81,254	47,000	37,114	37,787
30,250	3,231			210,700				
242 621	45.042	244,570	14,289	579,223	429,015	151,138	122,654	121,804
243,631	45,942	244,370	14,209	319,223	429,013	131,130	122,034	121,001
	1,690	163	4,911	6,013	1,658	1,399	14,816	
273,881	49,489	261,733	15,178	802,174	511,927	199,537	144,952	159,591
597,106	97,269	585,108	68,814	1,458,379	882,675	390,744	354,935	251,084
		1						
181,209	29,059	175,801	23,020	392,912	539,434	105,291	119,453	83,854
1,467	29,039	4,796	10	4,584	4,103	986	117	543
400 (8)	20.245	100 507	23,030	207 406	543 537	106,277	119,570	84,397
182,676	29,347	180,597	23,030	397,496	543,537	100,277		
		440.05	0.222	212 500	396,595	58,960	71,640	46,409
120,353	25,239	148,271	9,322	213,589	390,393			
15,002	660	6,848	3,741	51,672	14,665	15,975	11,898	10,658
16,198	549	19,763	3,294	50,583	25,776	15,526	9,028 6,418	10,240
7,400	000	6 108	2,944	15,902 21,462	12,738 12,864	4,684	7,658	4,073
11,166	999	6,108	2,360	21,402	12,804	4,371		
170,119	27,447	181,001	21,661	353,208	462,638	99,736	106,642	71,380
			1,369	44,288	80,899	6,541	12,928	13,017
12,557	1,900	404	1,307	11,200		1,084	1,525	1,038

Southern Ontario System—Continued

Municipality	Port Hope	Port McNicoll	Port Perry	Port Rowan	Port Stanley	Prescott
Population	7,850	1,010	2,210	809	1,530	5,351
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 641,504 128,543	\$. 69,051 11,867	\$ 136,283 23,004	\$ 54,456 10,268	\$ 171,116 51,814	\$ 296,991 80,466
Net fixed assets	512,961	57,184	113,279	44,188	119,302	216,525
Cash on hand and in bank Investment in government securities Accounts receivable	104,602 3,312	6,646 26,000	21,498 16,000	-7,124	1,830 9,000	30,000
Total current assets	107,914	39,546	37,937	8.342	1,967	3,739
OTHER ASSETS Inventory of stores	35,010	1,383	47	221		8,919
Sinking fund on local debentures Miscellaneous			243		220	190
Total other assets	35,010 449,738	1,383 54,161	290 86,036	221 29,536	220 156,121	9,109 241,399
	1,105,623	152,274	237,542	82,287	288,440	500,772
LIABILITIES		\				
Debentures outstanding	104,500					1,400
Accounts payableOther	12,804 27,814	773 377	490 1,623	398 281	912	2,076 3,308
Total liabilities	145,118	1,150	2,113	679	912	6,784
Equity in Ontario Hydro Systems Other	449,738	54,161	86,036 100	29,536	156,121 39	241,399
Total reserves	449,738	54,161	86,136	. 29,536	. 156,160	241,399
Debentures redeemedLocal sinking fundAccumulated net income invested in	139,500	9,804	19,882	11,000	18,950	22,771
plant or held as working funds. Frequency standardization expense	371,267	87,159	129,411	40,546	120,558	229,818
charged this year				526	8,140	
Total capital	510,767	96,963	149,293	52,072	131,368	252,589
	105,623	152,274	237,542	82,287	288,440	500,772
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	407,365 2,696	48,450 1,709	58,462 1,203	16,425 116	74,122 516	158,713 1,740
Total revenue	410,061	50,159	59,665	16,541	74,638	160,453
EXPENSE Power purchased	248,684	36,951	43,961	10,219	43,141	117,490
Local generation						
Operation and maintenance Administration	36,346 34,375	4,542 3,494	5,118 6,333	1,206 1,436	9,661 8,190	14,768 15,987
Fixed charges—interest and principal	21,054			4	55	1,418
—depreciation —other	16,534	1,730	3,357	1,418	5,060	8,551
Total expense	356,993	46,717	58,769	14,283	66,107	158,214
Net income or net expense	53,068	3,442	896	2,258	8,531	2 220
	55,000	3,114	890	2,230	0,331	2,239

								-
Preston	Priceville	Princeton	Queenston	Renfrew	Richmond	Richmond	Ridgetown	Ripley
10,953	158	439	448	8,406	1,030	Hill 15,032	2,546	450
\$	\$	\$	s	\$	s	\$	\$	\$
1,100,440	15,789	31,062	38,672	1,255,912	71,642	939,685		
204,815	4,988	5,899	6,262	255,482	4,284	76,110	188,557 27,580	36,845 6,265
895,625	10,801	25,163	32,410	1,000,430	67,358	863,575	160,977	30,580
52,658	1,261	3,247	6,380	77,915		65,498	10,273	10,063
	5,500	3,000	8,000	45,000		,	10,210	10,000
10,571	72	674	605	30,570	1,268	27,080	2,623	70
63,229	6,833	6,921	14,985	152 105	1 260	02 570	10.006	20.422
03,229	0,000	0,921	14,900	153,485	1,268	92,578	12,896	20,133
38,348				15,593	14	5,264	171	
2,048	540	55		183		12,698	3,386	
40,396	540	55		15,776	14	17,962	3,557	
930,555	4,037	35,506	28,133	106,853	20,636	189,814	154,973	32,267
1,929,805	22,211	67,645	75,528	1,276,544	89,276	1,163,929	332,403	82,980
225,280	3,600	2,000		191,644	6,500	559,010	50,827	
1,232	159	429	1,688	11,442	4,021	3,318	2,719	
14,000	87	615	140	9,053	888	32,987	5,946	458
240,512	3,846	3,044	1,828	212,139	11,409	595,315	59,492	458
930,555	4,037	35,506	28,133	106,853	20,636	189,814	154,973	32,267
930,333	4,037	33,300	55	128	20,030	1,700	206	32,201
						2,700		
930,619	4,037	35,506	28,188	106,981	20,636	191,514	155,179	32,267
252,520	8,566	4,050	9,500	579,592	7,387	61,922	30,628	12,744
502,984	5,762	24,813	35,854	377,832	49,844	315,016	85,967	37,511
302,984	3,702	24,013	00,004	077,002	17,011	010,010	00,707	07,022
3,170		232	158			162	1,137	
758,674	14,328	29,095	45,512	957,424	57,231	377,100	117,732	50,255
1,929,805	22,211	67,645	75,528	1,276,544	89,276	1,163,929	332,403	82,980
		40.00	10.40**	201 452	25,709	497.914	89,742	16,674
520,569	3,616	13,208	18,107 340	301,453 4,164	25,709	3,033	1,314	521
2,905	261	173	340	4,101	*		2,021	
523,474	3,877	13,381	18,447	305,617	25,713	500,947	91,056	17,195
311,978	1,828	9,612	11,436	111,080	15,177	308,801	53,830	11,437
				42,385		02.446	0.004	022
51,845	552	398	921	24,317	1,888	23,116	8,821	923
26,994	456	1,057	1,191	31,896	982	32,317	9,990	1,386
28,037	446	385		19,790	638	40,966	5,205 4,631	953
27,596	491	814	922	30,241	1,418	19,267	4,031	
444.450	2.852	12.266		259,709	20,103	424,467	82,477	14,699
446,450	3,773	12,266	14,470	207,109				
77,024	104	1,115	3,977	45,908	5,610	76,480	8,579	2,496
3,115	65	169	166	2,665	309	4,628	1,028	218

Southern Ontario System—Continued

Municipality	Riverside	Rockland	Rockwood	Rodney	Rosseau	Russell
Population	16,716	2,880	868	1,025	212	562
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 759,820 151,264	\$ 102,849 9,269	\$ 46,152 9,802	\$ 57,728 20,682	\$ 22,029 6,228	\$ 37,537 7,342
Net fixed assets CURRENT ASSETS	608,556	93,580	36,350	37,046	15,801	30,195
Cash on hand and in bank	5,352	6,870 8,166	6,752 1,500 425	5,477 5,200 1,071	4,060 1,500 178	7,991 12,000 2,021
Total current assets	15,934	15,036	8,677	11,748	5,738	22,012
OTHER ASSETS Inventory of stores	26,947	15	119	20		
Sinking fund on local debentures Miscellaneous	1,536	1,251	1,596	241		
Total other assets Equity in Ontario Hydro Systems	28,483 389,642	1,266 13,086	1,715 43,047	261 52,305	13,956	22,744
	1,042,615	122,968	89,789	101,360	35,495	74,951
LIABILITIES Debentures outstanding. Accounts payable. Other.	30,050 22,875 11,090	20,000 3,216 2,813	6,859 239 688	2,449 430	63	221 315
Total liabilities	64,015	26,029	7,786	2,879	63	536
RESERVES Equity in Ontario Hydro Systems Other	389,642 536	13,086 547	43,047	52,305 73	13,956 27	22,744
Total reserves	390,178	13,633	43,047	52,378	13,983	22,744
Debentures redeemedLocal sinking fund	132,450	5,000	5,641	8,500	11,933	8,808
Accumulated net income invested in plant or held as working funds. Frequency standardization expense	450,562	78,306	32,966	36,914	9,516	42,863
charged this year	5,410	*******	349	689	•••••	•••••
Total capital	588,422	83,306	38,956	46,103	21,449	51,671
	1,042,615	122,968	89,789	101,360	35,495	74,951
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	359,307 3,673	47,476 164	23,389 284	27,798 343	6,591 176	13,150 584
Total revenue	362,980	47,640	23,673	28,141	6,767	13,734
EXPENSE						
Power purchasedLocal generation	207,710	28,199	17,184	18,691	3,589	8,548
Operation and maintenance Administration	38,078 45,969	5,516	1,261	1,492	571	1,379
Fixed charges—interest and principal	10,121	3,524 1,922	2,742 590	3,247	685	1,514
—depreciation —other	18,917	2,284	1,256	1,885	665	996
Total expense	320,795	41,445	23,033	25,315	5,510	12,437
Net income or net expense	42,185	6,195	640	2,826	1,257	1,297
Number of customers	5,212	694	299	442	117	203

		,						
St.	St. Clair	St. George	St. Jacobs	St. Mary's	St. Thomas	Sandwich	Sandwich	Sarnia
Catharines 41,211	Beach 1,371	711	722	4,349	19,617	East Twp. 21,347	West Twp. 26,297	47,119
\$	\$	\$	\$	\$	s	\$	s	\$
3,977,065	88,525	48,595	47,072	452,346	1,618,053	1,295,310	1,886,991	4,357,944
559,372	18,244	2,587	9,355	112,812	431,041	243,143	309,407	892,730
3,417,693	70,281	46,008	37,717	339,534	1,187,012	1,052,167	1,577,584	3,465,214
208,449	10,561	451	3,259	29,898	300	49,677	15,569	600
100,000		6,000	4,734	42,500	35,000	53,142	157,741	150,000
170,630	955	1,913	1,448	3,666	66,838	71,184	59,740	149,996
479,079	11,516	8,364	9,441	76,064	102,138	174,003	233,050	300,596
93,525	28	80	10	19,270	37,984	34,594	36,142	231,703
2,525	647			4,098	2,071	45,932	60,892	49,366
96,050	675	80	10	23,368	40,055	80,526	97,034	281,069
3,375,540	32,092	50,004	64,124	457,432	1,710,862	161,367	292,721	2,850,084
7,368,362	114,564	104,456	111,292	896,398	3,040,067	1,468,063	2,200,389	6,896,963
	6,600			46,935		954,000	1,162,600	671,700
167,847	2,746	30	230	40,933	38,404	26,623	1,102,000	233,079
23,863	1,095	656	100	3,604	46,529	35,691	97,470	100,594
191,710	10,441	686	330	50,544	84,933	1,016,314	1,261,549	1,005,373
3,375,540 7,265	32,092	50,004	64,124	457,432 44	1,710,862	161,367	292,721	2,850,084 13,753
3,382,805	32,092	50,004	64,124	457,476	1,711,017	162,007	292,821	2,863,837
302,023	11,741	6,000	6,000	147,326	138,944	91,513	132,900	566,300
					> • • • • • •		, , , , , , , , ,	. , ,
3,491,824	59,941	47,766	40,533	240,000	1,138,983	198,229	512,104	2,460,753
* * * * * * * * * *	349		305	1,052	33,810		1,015	700
3,793,847	72,031	53,766	46,838	388,378	1,244,117	289,742	646,019	3,027,753
7,368,362	114,564	104,456	111,292	896,398	3,040,067	1,468,063	2,200,389	6,896,963
	All Address of the Control of the Co							
2,348,607	37,680	21,975	25,949	498,128	820,663	569,743	801,717	5,205,079
15,706	138	362	323	5,148	13,162	7,621	6,662	54,765
		22.227	26 272	503,276	833,825	577,364	808,379	5,259,844
2,364,313	37,818	22,337	26,272	303,270		377,304	000,077	5,207,011
1,520,265	20,926	17,485	19,066	426,799	493,625	216,463	380,780	4,209,475
402.454	2.610	4.244	1 226	20.115	128 875	108,907	74,787	307,774
183,151	2,612	1,314	1,336 1,471	20,115 20,800	128,875 71,979	78,112	85,941	198,363
159,399 1,996	2,524 1,560	1,867	33	5,619	97	86,096	102,752	66,607
92,686	3,957	979	1,281	12,223	46,650	32,470	46,281	109,573
1,957,497	31,579	21,645	23,187	485,556	741,226	522,048	690,541	4,891,792
406,816	6,239	692	3,085	17,720	92,599	55,316	117,838	368,052
13,980	422	286	227	1,622	7,003	6,342	7,627	14,905
10,700	, , , , ,							

Southern Ontario System—Continued

Municipality	Scarborough	Seaforth	Shelburne	Simcoe	Smith's	Smithville
	Twp.				Falls	
Population	184,654	2,228	1,257	8,418	9,032	835
A. BALANCE SHEETS FIXED ASSETS	\$	\$	\$	\$	\$	\$
Plant and facilities at cost	16,875,683	223,457	110,975	651,936	735,403	60,621
Accumulated depreciation	1,448,482	. 22,548	31,251	139,088	182,832	11,646
Net fixed assets	15,427,201	200,909	79,724	512,848	552,571	48,975
Cash on hand and in bank		13,824	14,418	16,721	3,209	5,613
Investment in government securities Accounts receivable	627,500 330,588	9,000 4,603	1,020	5,616	20,000 3,714	3,000
Total current assets OTHER ASSETS	1,116,057	27,427	15,438	22,337	26,923	9,355
Inventory of stores	125,822	541	380	19,225	19,556	294
Sinking fund on local debentures Miscellaneous	409,292 182,984	571		24,816	299	
	102,701			21,010		
Total other assets Equity in Ontario Hydro Systems	718,098 2,843,191	1,112 204,903	380 81,940	44,041 502,551	19,855 498,614	294
Equity in Ontario Hydro Systems					498,014	29,645
	20,104,547	434,351	177,482	1,081,777	1,097,963	88,269
LIABILITIES						
Debentures outstanding	8,210,150 862,562	27,500 1,136	2 220	16	10,000 20,376	F60
Other	1,013,148	2,986	2,230 146	16 10,198	886	562 342
Total liabilities	10,085,860	31,622	2,376	10,214	31 262	904
RESERVES	10,085,800	31,022	2,370	10,214	31,262	904
Equity in Ontario Hydro Systems	2,843,191	204,903	81,940	502,551	498,614	29,645
Other	11,088	5	48		199	
Total reserves	2,854,279	204,908	81,988	502,551	498,813	29,645
Debentures redeemed Local sinking fund		47,500	16,991	75,435	137,787	15,000
Accumulated net income invested in plant or held as working funds.	5,177,151	150,117	76,127	489,295	430,101	12 100
Frequency standardization expense	3,177,131	130,117	70,127	409,293	430,101	42,188
charged this year	1,516	204		4,282		532
Total capital	7,164,408	197,821	93,118	569,012	567,888	57,720
	20,104,547	434,351	177,482	1,081,777	1,097,963	88,269
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	6,808,265	82,039	51,962	401,918	321,688	37,543
Other	117,534	894	93	2,132	2,684	238
Total revenue	6,925,799	82,933	52,055	404,050	324,372	37,781
EXPENSE						
Power purchased		49,614	31,950	257,728	208,140	21,339
Local generation Operation and maintenance	296,707	14 346	3 200	35,148	21 541	2 502
Administration	537,219	14,346 7,345	3,299 3,342	20,922	21,541 36,927	3,583 5,295
Fixed charges—interest and principal	745,223	2,972		2	3,030	
—depreciation —other	350,479	4,852	3,352	17,927	20,350	1,561
Total expense	6,109,995	79,129	41,943	221 727	200 000	21 779
				331,727	289,988	31,778
Net income or net expense	815,804	3,804	10,112	72,323	34,384	6,003
Number of customers	60,872	867	564	3,129	3,365	374

Southamp-	Springfield	Stamford	Stayner	Stirling	Stoney	Stouffville	Stratford	Strathroy
ton 1,742	524	Twp. 29,077	1,584	1,312	Creek 5,974	2,874	20,189	4,833
\$	\$	\$	\$	\$	s			
162,457	38,516	2,252,411	106,493	114,584	336,883	\$ 175,662	\$ 1,999,225	\$
15,323	11,829	300,752	18,035	34,376	37,908	23,241	540,672	391,163 113,456
447 424	26.607	4.054.650	00.450					
147,134	26,687	1,951,659	88,458	80,208	298,975	152,421	1,458,553	277,707
10,729	5,697	239,061	3,734	27,331	36,999	10,004	2,000	2,635
5,000	500	8,000	1,000			24,704	180,000	
562	808	40,503	1,748	895	5,885	1,258	21,451	4,035
16,291	7,005	287,564	6,482	28,226	42,884	35,966	203,451	6,670
1,889		55,153	126	2,111		418	61,411	577
400		20.000						
120	66	30,269	1,933	749	10,540	2,250	2,469	723
2,009	66	85,422	2,059	2,860	10,540	2,668	63,880	1,300
86,089	29,808	631,612	75,262	52,329	73,227	98,241	1,951,950	337,181
251,523	63,566	2,956,257	172,261	163,623	425,626	289,296	3,677,834	622,858
7,822		1,059,183		9,392	51,011	67,148		7,500
432		47,778	1,161		1,712	386	176,299	1,774
1,497	125	21,515	426	728	5,532	8,107	14,721	4,769
9,751	125	1,128,476	1,587	10,120	58,255	75,641	191,020	14,043
86,089	29,808	631,612	75,262	52,329	73,227	98,241	1,951,950	337,181
	314	37,531	100			51	721	60
86,089	30,122	669,143	75,362	52,329	73,227	98,292	1,952,671	337,241
34,701	9,500	511,095	9,557	13,608	28,989	17,374	455,800	56,389
120,982	25,016	644,705	85,755	87,566	262,869	97,581	1,070,123	214,291
	1,197	2,838			2,286	408	8,220	894
155,683	33,319	1,158,638	95,312	101,174	294,144	115,363	1,534,143	271,574
251,523	63,566	2,956,257	172,261	163,623	425,626	289,296	3,677,834	622,858
								167.15
75,830	13,787	1,007,702	56,327	41,508	182,854	98,539	861,627	185,169
1,217	136	3,827	162	935	895	322	21,014	338
77,047	13,923	1,011,529	56,489	42,443	183,749	98,861	882,641	185,507
							E40.000	100 510
43,511	8,046	565,129	33,863	25,377	124,009	69,825	518,890	120,540
11,670	2,684	115,905	3,808	6,436	7,015	6,150	74,331	21,378
6,044	1,101	68,281	3,558	5,505	17,741	9,115	93,348	19,265
1,548		89,995		999	6,245	3,350	4,965	1,255
3,643	1,168	51,970	2,688	2,069	7,664	3,859	56,226	11,374
								,
66,416	12,999	891,280	43,917	40,386	162,674	92,299	747,760	173,812
10,631	924	120,249	12,572	2,057	21,075	6,562	134,881	11,695
	170	8,798	622	518	1,861	1,062	6,937	1,756
1,108	179	8,798	022	0.10				

Southern Ontario System—Continued

\$ 340,623 39,856 300,767 23,202	\$ 42,688 8,771 33,917 8,477 2,000 287	\$ 5,866 9,897	\$ 128,963 - 34,224	\$ Swansea 9,221 \$ \$ 598,222 120,283 477,939	Tara 477 \$ 40,733 9,918
\$ 340,623 39,856 300,767 23,202 6,147	\$ 42,688 8,771 33,917 8,477 2,000	\$ 65,227 7,424 57,803 5,866	\$ 128,963 34,224 94,739	\$ 598,222 120,283	\$ 40,733
340,623 39,856 300,767 23,202 	33,917 8,477 2,000	57,803 5,866	128,963 - 34,224 - 94,739	598,222 120,283	40,733
340,623 39,856 300,767 23,202 	33,917 8,477 2,000	57,803 5,866	128,963 - 34,224 - 94,739	598,222 120,283	40,733
340,623 39,856 300,767 23,202 	33,917 8,477 2,000	57,803 5,866	128,963 - 34,224 - 94,739	598,222 120,283	40,733
39,856 300,767 23,202 6,147	8,771 33,917 8,477 2,000	57,803 5,866	94,739	120,283	
23,202	8,477 2,000	5,866		477,939	No. of Concession, Name of
6,147	2,000				30,815
6,147		9.897	9,782	102,367	736
	287	2,021	7,000	96,433	8,000
29,349		423	5,840	4,919	2,586
	10,764	16,186	22,622	203,719	11,322
479	187	412		16,877	40
25			,	2,224	
504	187	412		19,101	40
75,012	38,506	7,145	84,080	438,545	34,255
405,632	83,374	81,546	201,441	1,139,304	76,432
116,173		26,382		81,641	
13,696	42	217	5,001	1,514	71
34,099	85	31	1,085	15,912	
163,968	127	26,630	6,086	99,067	71
75,012	38,506	7,145	84,080	438,545	34,255
388			350	200	
75,400	38,506	7,145	84,430	438,745	34,255
36,768	4,628	8,618	26,000	167,824	14,264
128,553	40,113	39,153	84,613	430,597	27,842
943			312	3,071	
166,264	44,741	47,771	110,925	601,492	42,106
405,632	83.374	81.546	201.441	1.139.304	76,432
163,396	22,986	23,672	60,842	307,405	18,482
1,481	172	458	275	13,376	323
164,877	23,158	24,130	61,117	320,781	18,805
108,346	15,211	12,761	41,747	208,721	14,372
6,210					
6,501	904	1,883	2,556	39,873	1,224
,					895
					1,167
7,031				13,307	1,107
151,935	18,673	20,656	54,559	308,991	17,658
12,942	4,485	3,474	6,558	11,790	1,147
					234
	504 75,012 405,632 116,173 13,696 34,099 163,968 75,012 388 75,400 36,768 128,553 943 166,264 405,632 163,396 1,481 164,877 108,346 6,210 6,501 12,400 6,501 12,400 10,847 7,631	504 187 75,012 38,506 405,632 83,374 116,173	504 187 412 75,012 38,506 7,145 405,632 83,374 81,546 116,173	504 187 412	504 187 412

Tavistock	Tecumseh	Teeswater	Thamesford	Thamesville	Thedford	Thornbury	Thorndale	Thornton
1,204	4,359	877	878	1,015	733	1,129	410	295
\$	\$	\$	s	s	\$	s	s	\$
103,612	214,850	79,989	66,909	96,898	φ 50,847	-		
30,098	61,351	12,872	12,285	20,989		136,325	30,444	20,240
30,070	01,051	12,072	12,203	20,909	7,602	13,060	9,399	7,922
73,514	153,499	67,117	54,624	75,909	43,245	123,265	21,045	12,318
19 690	7 722		4 447	0.641	400	44.6	6.040	4 252
18,680	7,722	45.000	4,447	8,641	409	416	6,048	1,353
	7.054	15,000		6,840	14,920	4,000	3,000	
981	7,951	129	895	1,384	693	4,165	375	336
40.664	45 (72	4 7 4 2 0	F 040	46.068				
19,661	15,673	15,129	5,342	16,865	16,022	8,581	9,423	1,689
313	11,715			14		1,645		
378		1,196	69	173	869	286	535	425
691	11,715	1,196	69	187	869	1,931	535	425
155,749	117,780	51,718	64,269	69,925	40,339	19,426	30,505	12,403
249,615	298,667	135,160	124,304	162,886	100,475	153,203	61,508	26,835
22,628			2,200			24,479		
1,038	315	1,179	746	28		536	1,221	1,538
1,187	1,905	79	668	1,095	384	320	6	63
1,107	1,903	. 19	000	1,093	304	. 320	0	
24,853	2,220	1,258	3,614	1,123	384	25,335	1,227	1,601
155,749	117,780	51,718	64,269	69,925	40,339	19,426	30,505	12,403
			7	126	9		28	
155,749	117,780	51,718	64,276	70,051	40,348	19,426	30,533	12,403
200,125	111,100							
13,016	26,000	21,296	6,158	11,188	16,500	61,521	3,086	7,200
13,010	20,000	21,270	0,100	22,200	20,000			
55.055	150 762	60.000	49,983	82,164	43,157	46,921	26,561	5,631
55,255	150,762	60,888	49,903	02,104	40,101	10,721	20,002	0,000
			272	1 (10	0.6		101	
742	1,905		273	1,640	86		101	
				04.740	FO 742	100 112	20.749	12 921
69,013	178,667	82,184	56,414	91,712	59,743	108,442	29,748	12,831
					400 455	452 202	(1 500	24 925
249,615	298,667	135,160	124,304	162,886	100,475	153,203	61,508	26,835
49,961	85,094	32,799	37,030	40,509	20,624	49,242	13,358	6,666
	1,098	871	143	363	654	267	173	2
2,018	1,098	0/1	145	000				
#4 0 WO	07, 100	22 (50	37,173	40,872	21,278	49,509	13,531	6,668
51,979	86,192	33,670	37,173	40,072	21,270	17,007		
						1		
			04.077	20 225	16,887	24,101	8,874	3,861
30,586	48,200	25,096	26,277	28,335		8,669		
				2.062	1 160		1,254	533
5,191	15,429	2,424	1,602	3,862	1,469	4,146		432
3,041	14,198	2,329	2,270	5,299	2,412	3,898	1,271	
2,260	4		182			2,797	027	465
3,020	6,423	1,953	1,716	2,681	1,243	2,960	927	465
		C4 000	22.047	40,177	22,011	46,571	12,326	5,291
44,098	84,254	31,802	32,047	<u> </u>				
7,881	1,938	1,868	. 5,126	695	733	2,938	1,205	1,377
502	1,319	359	348	448	299	526	135	103

Southern Ontario System—Continued

Population							
Population	Municipality	Thorold	Tilbury	Tillsonburg	Toronto		Tottenham
FIXED ASSETS Plant and facilities at cost. 572,786 226,723 705,347 35,373,475 5,567,017 37,286 Accumulated depreciation 81,991 61,496 65,833 25,124,575 540,670 8,392 Accumulated depreciation 81,991 61,496 65,833 25,124,575 540,670 8,392 CURRENT ASSETS Cash on hand and in bank. 38,565 5,500 200 68,109 39,840 10,358 Investment in government securities 10,000 3,598,339 8,000 85,025 11,338 Total current assets 44,309 18,534 5,434 8,370,766 334,165 16,996 OTHER ASSETS Inventory of stores. 16,701 169 20,525 2,561,515 198,290 538iking fund on local debentures. 3,407 477 11,954 561,898 102,498 Total current assets 20,108 644 32,479 3,443,931 390,788 Equity in Ontario Hydro Systems 575,449 206,903 356,617 73,548,040 1,284,811 40,742 Debentures outstanding. 97,840 42,500 104,307 14,069,024 1,129,816 434 Accounts payable. 3,016 99,967 2,220,800 166,446 43 Accounts payable. 3,016 99,967 2,220,800 166,	Population	8,483	3,011	6,471	665,382		754
Plant and facilities at cost.	A. BALANCE SHEETS						1
Plant and facilities at cost. 572,786 226,723 705,841 93,573,475 5,567,017 37,289 Accumulated depreciation 81,997 61,469 65,833 25,124,575 540,670 8,392	FIXED ASSETS	\$	\$	\$	\$	\$	s
Account set of the properties St. 100 St	Plant and facilities at cost	572,786	226,723	705,341	93,573,475	1 -	1
CURRENT ASSETS Cash on hand and in bank. 38,565 5,500 200 68,100 39,840 5,500 5,500 10,000 3,508,339 8,000 5,500 5,500 20,000 3,508,339 8,000 5,500 5,500 20,000 3,508,339 8,000 5,500 20,000 3,508,339 8,000 5,500 20,000 3,508,339 8,000 5,500 20,000 3,508,339 8,000 5,500 20,000 3,508,339 8,000 5,500 20,000 3,508,339 8,000 5,500 20,000 3,508,330 8,000 5,500 20,000 3,508,300 3,508,	Accumulated depreciation	81,991	61,496	65,833			8,392
Investment in government securities	CURRENT ASSETS	490,795	165,227	639,508	68,448,900	5,026,347	28,897
Accounts receivable			1	200		39,840	10,358
Total current assets.	Investment in government securities		1				5,500
OTHER ASSETS Inventory of stores. 16,701 169 20,525 2,561,515 198,290 Sinking fund on local debentures. 3,407 475 11,954 561,898 192,498 Total other assets. 20,108 644 32,479 3,443,931 390,788 Equity in Ontario Hydro Systems. 575,449 206,903 350,617 73,548,040 1,284,841 40,742 LIABILITIES Debentures outstanding. 97,840 42,500 104,307 14,069,024 1,129,816 3,114 Accounts payable. 3,016 9,967 2,220,000 166,446 43 Accounts payable. 3,016 9,967 2,220,000 166,446 43 Other. 16,074 4,470 16,233 651,884 273,062 808 RESERVES 116,930 46,970 130,507 16,940,988 1,569,324 3,965 RESERVES 60 75,449 206,903 356,617 73,548,040 1,284,841 40,742	Accounts receivable	5,744	3,034	5,234	4,704,318	286,325	1,138
Sinking fund on local debentures 3,407 475 11,954 561,898 192,498 17,000 1,000	OTHER ASSETS	44,309	18,534	5,434	8,370,766	334,165	16,996
Miscellaneous	Inventory of stores	16,701	169	20,525	2,561,515	198,290	
Total other assets. 20,108 644 32,479 3,443,931 390,788 4.0,742 206,903 356,617 73,548,040 1,284,841 40,742 1,130,661 391,308 1,034,038 153,811,637 7,036,141 86,635 2.140,042 1,120,816 3,114 4,060,024 1,120,816 3,114 4,060,014 1,120,816 3,114 4,060,014 1,120,816 3,114 4,060,014 1,120,816 3,114 4,060,014 1,120,816 3,114 4,060,014 1,120,816 3,114 4,060,014 1,120,816 3,114 4,060,014 1,120,816 3,114 4,060,014 1,120,816 3,114 4,060,014 1,120,816 3,114 4,060,014 1,120,816 4,160,014 1,160	Sinking fund on local debentures						
Equity in Ontario Hydro Systems 575,449 206,903 356,617 73,548,040 1,284,841 40,742	Miscellaneous	3,407	475	11,954	561,898	192,498	
Equity in Ontario Hydro Systems 575,449 206,903 356,617 73,548,040 1,284,841 40,742	Total other assets	20.108	644	32 479	3 443 031	300 788	
1,130,661 391,308 1,034,038 153,811,637 7,036,141 86,635	Equity in Ontario Hydro Systems		1				
Debentures outstanding		4 400 ((4	404 400				
Debentures outstanding		1,130,001	391,308	1,034,038	153,811,637	7,036,141	86,635
Accounts payable. 3,016							
Other 16,074 4,470 16,233 651,884 273,062 808 Total liabilities 116,930 46,970 130,507 16,940,988 1,569,324 3,965 RESERVES Equity in Ontario Hydro Systems 575,449 206,903 356,617 73,548,040 1,284,841 40,742 Other 209 420 137 693,779 20,923 Total reserves 575,748 207,323 356,754 74,241,819 1,305,764 40,742 Debentures redeemed 32,160 21,500 111,693 30,858,960 475,094 18,321 Local sinking fund 405,823 114,306 431,048 31,449,352 3,675,446 23,607 Frequency standardization expense charged this year 1,209 4,036 10,513 10,513 11,513 41,928 B. OPERATING STATEMENTS 70 62,628,830 4,161,053 41,928 Sales of electric energy 527,248 85,298 255,712 36,287,665 2,722,930 22,416	Debentures outstanding		42,500			1	
Total liabilities	Other		4.470				
RESERVES Equity in Ontario Hydro Systems 575,449 206,903 356,617 73,548,040 1,284,841 40,742 209 420 137 693,779 20,923 Total reserves 575,748 207,323 356,754 74,241,819 1,305,764 40,742 20,914 20,923 Total reserves 575,748 207,323 356,754 74,241,819 1,305,764 40,742 20,914 Total reserves 32,160 21,500 111,693 30,858,960 475,094 18,321 Accumulated net income invested in plant or held as working funds 405,823 114,306 431,048 31,449,352 3,675,446 23,607 Frequency standardization expense 1,209 4,036 10,513 Total capital 437,983 137,015 546,777 62,628,830 4,161,053 41,928 Total capital 437,983 137,015 546,777 62,628,830 4,161,053 41,928 REVENUE Sales of electric energy 527,248 85,298 255,712 36,287,665 2,722,930 22,416 Other 2,156 1,420 642 431,092 26,575 270 Total revenue 529,404 86,718 256,354 36,718,757 2,749,505 22,686 EXPENSE Power purchased 402,740 47,353 154,478 20,989,396 1,821,022 14,332 Local generation 402,740 47,353 154,478 20,989,396 1,821,022 14,332 Fixed charges—interest and principal 441 15,727 1,240,540 115,985 838 Graph 402,740 47,351 11,332 24,736 4,189,550 183,791 1,179 Fixed charges—interest and principal 441 15,645 2,967,875 118,627 1,030 Total expense 491,474 81,235 249,179 34		10,074	4,470	10,233	051,884	273,062	808
Equity in Ontario Hydro Systems	Total liabilities	116,930	46,970	130,507	16,940,988	1,569,324	3,965
Other 299 420 137 693,779 20,923 Total reserves 575,748 207,323 356,754 74,241,819 1,305,764 40,742 Debentures redeemed 32,160 21,500 111,693 30,858,960 475,094 18,321 Local sinking fund Accumulated net income invested in plant or held as working funds. 405,823 114,306 431,048 31,449,352 3,675,446 23,607 Frequency standardization expense charged this year 1,209 4,036 10,513 Total capital 437,983 137,015 546,777 62,628,830 4,161,053 41,928 B. OPERATING STATEMENTS REVENUE Sales of electric energy 527,248 85,298 255,712 36,287,665 2,722,930 22,416 Other 2,156 1,420 642 431,092 26,575 270 Total revenue 529,404 86,718 256,354 36,718,757 2,749,505 22,686 EXPENSE Power purchased 402,740 47,353 154,478 </td <td></td> <td>575.449</td> <td>206.903</td> <td>356.617</td> <td>73 548 040</td> <td>1 284 841</td> <td>40 742</td>		575.449	206.903	356.617	73 548 040	1 284 841	40 742
Total reserves	Other						40,742
CAPITAL Debentures redeemed 32,160 21,500 111,693 30,858,960 475,094 18,321 Local sinking fund Accumulated net income invésted in plant or held as working funds 405,823 114,306 431,048 31,449,352 3,675,446 23,607 Frequency standardization expense charged this year 1,209 4,036 10,513 Total capital 437,983 137,015 546,777 62,628,830 4,161,053 41,928 1,130,661 391,308 1,034,038 153,811,637 7,036,141 86,635 R. OPERATING STATEMENTS REVENUE Sales of electric energy 527,248 85,298 255,712 36,287,665 2,722,930 22,416 Other 2,156 1,420 642 431,092 26,575 270 Construction of the property of							
Accumulated net income invésted in plant or held as working funds. Frequency standardization expense charged this year. 1,209 4,036 10,513 10,513 10,513 11,30,661 391,308 1,034,038 153,811,637 7,036,141 86,635	CAPITAL	575,748	207,323	356,754	74,241,819	1,305,764	40,742
Accumulated net income invésted in plant or held as working funds. Frequency standardization expense charged this year. Total capital	Debentures redeemed	32,160	21,500	111,693	30,858,960	475,094	18,321
plant or held as working funds. Frequency standardization expense charged this year. 1,209 4,036	Local sinking fund				320,518		
Total capital	Accumulated net income invested in		114 206	421 040	24 440 250	2 (75 44)	0.7 (0.77
Charged this year. 1,209 4,036 10,513 Total capital. 437,983 137,015 546,777 62,628,830 4,161,053 41,928	Frequency standardization expense	403,823	114,300	431,048	31,449,352	3,675,446	23,607
1,130,661 391,308 1,034,038 153,811,637 7,036,141 86,635	charged this year		1,209	4,036		10,513	
1,130,661 391,308 1,034,038 153,811,637 7,036,141 86,635	Total capital	437,983	137,015	546,777	62,628,830	4,161,053	41,928
B. OPERATING STATEMENTS REVENUE Sales of electric energy. 527,248 85,298 255,712 36,287,665 2,722,930 22,416 Other. 2,156 1,420 642 431,092 26,575 270 Total revenue. 529,404 86,718 256,354 36,718,757 2,749,505 22,686 EXPENSE Power purchased. 402,740 47,353 154,478 20,989,396 1,821,022 14,332 Local generation. Operation and maintenance. 37,251 11,648 38,593 4,981,014 242,166 1,704 Administration. 27,271 11,332 24,736 4,189,550 183,791 1,179 Fixed charges—interest and principal depreciation. 13,311 6,461 15,645 2,967,875 118,627 1,030 —other. 491,474 81,235 249,179 34,368,375 2,481,591 19,083 Net income or net expense. 37,930 5,483 7,175 2,350,382 267,914 3,603		1.130.661	301 308	1 024 028	152 911 627		
REVENUE Sales of electric energy 527,248 85,298 255,712 36,287,665 2,722,930 22,416 Other 2,156 1,420 642 431,092 26,575 270 Total revenue 529,404 86,718 256,354 36,718,757 2,749,505 22,686 EXPENSE Power purchased 402,740 47,353 154,478 20,989,396 1,821,022 14,332 Local generation 37,251 11,648 38,593 4,981,014 242,166 1,704 Administration 27,271 11,332 24,736 4,189,550 183,791 1,179 Fixed charges—interest and principal —depreciation 16,901 4,441 15,727 1,240,540 115,985 838 —other 13,311 6,461 15,645 2,967,875 118,627 1,030 Total expense 491,474 81,235 249,179 34,368,375 2,481,591 19,083 Net income or net expense 37,930 5,483		2,200,002	7 071,000	1,001,000	155,611,057	7,030,141	80,033
Other 2,156 1,420 642 431,092 26,575 270 Total revenue 529,404 86,718 256,354 36,718,757 2,749,505 22,686 EXPENSE Power purchased 402,740 47,353 154,478 20,989,396 1,821,022 14,332 Local generation 0peration and maintenance 37,251 11,648 38,593 4,981,014 242,166 1,704 Administration 27,271 11,332 24,736 4,189,550 183,791 1,179 Fixed charges—interest and principal depreciation 16,461 15,645 2,967,875 118,627 1,030 —other 491,474 81,235 249,179 34,368,375 2,481,591 19,083 Net income or net expense 37,930 5,483 7,175 2,350,382 267,914 3,603	REVENUE						
Total revenue 529,404 86,718 256,354 36,718,757 2,749,505 22,686 EXPENSE Power purchased Local generation. Operation and maintenance. 402,740 47,353 154,478 20,989,396 1,821,022 14,332 Operation and maintenance. 37,251 11,648 38,593 4,981,014 242,166 1,704 Administration. 27,271 11,332 24,736 4,189,550 183,791 1,179 Fixed charges—interest and principal depreciation. 13,311 6,461 15,645 2,967,875 118,627 1,030 Oother. 491,474 81,235 249,179 34,368,375 2,481,591 19,083 Net income or net expense. 37,930 5,483 7,175 2,350,382 267,914 3,603	Other					2,722,930	
EXPENSE Power purchased	Other	2,156	1,420	642	431,092	26,575	270
EXPENSE Power purchased	Total revenue	529,404	86,718	256,354	36,718,757	2,749,505	22,686
Power purchased 402,740 47,353 154,478 20,989,396 1,821,022 14,332 Local generation 37,251 11,648 38,593 4,981,014 242,166 1,704 Administration 27,271 11,332 24,736 4,189,550 183,791 1,179 Fixed charges—interest and principal depreciation 16,901 4,441 15,727 1,240,540 115,985 838 —other 13,311 6,461 15,645 2,967,875 118,627 1,030 Total expense 491,474 81,235 249,179 34,368,375 2,481,591 19,083 Net income or net expense 37,930 5,483 7,175 2,350,382 267,914 3,603	EXPENSE						
Local generation	Power purchased	402 740	47 353	154 479	20.080.306	1 821 022	14 222
Operation and maintenance. 37,251 11,648 38,593 4,981,014 242,166 1,704 Administration. 27,271 11,332 24,736 4,189,550 183,791 1,179 Fixed charges—interest and principal depreciation. 16,901 4,441 15,727 1,240,540 115,985 838 —other. 13,311 6,461 15,645 2,967,875 118,627 1,030 Total expense. 491,474 81,235 249,179 34,368,375 2,481,591 19,083 Net income or net expense. 37,930 5,483 7,175 2,350,382 267,914 3,603	Local generation						
Administration	Operation and maintenance						
—depreciation	Administration	27,271					
Total expense	-depression						
Total expense							
Net income or <i>net expense</i> 37,930 5,483 7,175 2,350,382 267,914 3,603							
Number of east and		491,474	81,235	249,179	34,368,375	2,481,591	19,083
Number of customers 2.529 1.000 2.424 205.205 15.525 275	Net income or net expense	37,930	5,483	7,175	2,350,382	267,914	3,603
2,027 1,007 2,424 2U1,2U1 13 3/3 7/3	Number of customers	2,529	1,009	2,424	205,205	15,525	275

Trafalgar	Trenton	Tweed	Uxbridge	Vankleek	Victoria	Walkerton	Wallace-	Wardsville
Twp. 28,624	12,095	1,688	2,311	Hill 1,675	Harbour 1,030	3,811	burg 8,050	336
\$	\$	\$	\$	\$	\$	\$	\$	\$
1,886,599	970,486	141,935	139,072	124,032	54,256	254,001	890,635	φ 24,364
78,276	249,699	17,167	23,623	21,788	10,147	22,759	217,814	6,189
1,808,323	720,787	124,768	115,449	102,244	44,109	231,242	672,821	18,175
27 011	8,820	920	15,452	9,795	6 706	9 079	120,917	2 140
37,811		820 24,500	22,325	9,793	6,706	8,078	49,769	2,149 1,500
57,362	65,300 18,108	332	1,006	109	799	23,000 8,480	27,422	377
95,173	92,228	25,652	38,783	9,904	7,505	39,558	198,108	4,026
58,298	23,288	614	2,020		819	14,504	60,832	
18,065	100			1,686	75	229		
76,363	23,388	614	2,020	1,686	894	14,733	60,832	
228,693	657,855	65,079	98,016	9,194	26,506	152,181	878,251	16,241
2,208,552	1,494,258	216,113	254,268	123,028	79,014	437,714	1,810,012	38,442
832,655				36,200	10,300			
91,272	4,655		2,166	4,613	23	609	1,813	2,240
195,505	17,627	507	1,927	2,025	115	2,570	7,505	120
1,119,432	22,282	507	4,093	42,838	10,438	3,179	9,318	2,360
228,693	657,855	65,079	98,016	9,194	26,506	152,181	878,251	16,241
4,214	300	338	206			347	1,301	20
232,907	658,155	65,417	98,222	9,194	26,506	152,528	879,552	16,261
167,724	164,587	19,000	15,364	9,800	8,579	56,749	71,537	7,562
107,724								
688,472	649,234	131,189	136,589	61,196	33,491	225,258	849,605	13,644
17								1,385
856,213	813,821	150,189	151,953	70,996	42,070	282,007	921,142	19,821
2,208,552	1,494,258	216,113	254,268	123,028	79,014	437,714	1,810,012	38,442
								40.560
1,141,168	605,649	41,967	81,956	43,357	23,343	120,445	445,617	10,560
18,638	4,374	1,472	739	461	6	2,764	6,052	237
1,159,806	610,023	43,439	82,695	43,818	23,349	123,209	451,669	10,797
720,480	478,085	32,781	55,106	18,838	12,028	88,376	307,400	7,153
00.525	28 004	2,182	7,246	2,992	2,725	12,203	37,690	602
99,525	28,994 39,628	4,684	6,513	4,150	1,837	16,697	40,661	568
91,405	67			3,510	1,195			81
82,661 35,304	26,952	3,325	3,430	3,116	1,422	5,616	25,152	735
35,304	20,932							
1,029,375	573,726	42,972	72,295	32,606	19,207	122,892	410,903	9,139
130,431	36,297	467	10,400	11,212	4,142	317	40,766	1,658
			863	533	487	1,272	2,638	143
6,938	3,978	613	503	333				

Southern Ontario System—Continued

Municipality	Warkworth 540	Wasaga Beach	Waterdown	Waterford	Waterloo	Watford
T Optiation ,	340	406	1,794	2,105	19,441	1,239
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost	\$ 48,059 6,918	\$ 151,173 <i>38,413</i>	\$ 109,955 27,184	\$ 127,944 25,256	\$ 1,714,722 327,374	\$ 87,369 27,176
Net fixed assets CURRENT ASSETS	41,141	112,760	82,771	102,688	1,387,348	60,193
Cash on hand and in bank Investment in government securities Accounts receivable	1,564 3,000 279	12,050 15,000 6,172	11,177 1,660	7,902 1,639	300 100 17,775	13,365 13,157
				1,039	17,775	2,466
Total current assets OTHER ASSETS Inventory of stores	4,843	33,222	12,837	9,541	18,175	28,988
Sinking fund on local debentures				77	46,930	693
Miscellaneous		2,970	368	622	7,353	75
Total other assets Equity in Ontario Hydro Systems	19,394	2,970 13,689	420 83,199	699 114,736	54,283 1,131,396	768 102,320
	65,378	162,641	179,227	227,664	2,591,202	192,269
LIABILITIES						
Debentures outstanding	7,600	72,000	10,000	33,800	452,500	
Accounts payableOther	1 162	5	499	845 2,941	30,372 26,854	298 788
						100
Total liabilities	7,763	72,005	10,499	37,586	509,726	1,086
Equity in Ontario Hydro Systems Other	19,394	13,689 4,126	83,199	114,736	1,131,396 65	102,320
Total reserves	19,394	17,815	83,199	114,736	1,131,461	102,320
CAPITAL Debentures redeemed	11,400	38,000	13,000	8,946	303,500	9,056
Local sinking fund Accumulated net income invested in						
plant or held as working funds. Frequency standardization expense	26,821	34,821	71,889	65,607	642,454	79,642
charged this year			640	789	4,061	165
Total capital	38,221	72,821	85,529	75,342	950,015	88,863
	65,378	162,641	179,227	227,664	2,591,202	192,269
B. OPERATING STATEMENTS						
REVENUE						
Sales of electric energy	13,054	54,401	59,416	61,014	826,390	65,742
	91	2,000	290	129	2,078	909
Total revenue	13,145	56,401	59,706	61,143	828,468	66,651
EXPENSE						
Power purchasedLocal generation	8,156	25,056	35,769	37,317	511,017	46,675
Operation and maintenance	719	7,261	8,059	6,100	73,119	4,382
Administration	789	7,969	4,888	3,881	49,154	7,298
Fixed charges—interest and principal —depreciation	642	8,180	1,543	2,876	57,445	
-other	1,090	4,092	3,141	3,283	43,257	2,717
Total expense	11,396	52,558	53,400	53,457	733,992	61,072
Net income or net expense	1,749	3,843	6,306	7,686	94,476	5,579
Number of customers	232	1,010	584	752	6,000	522
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			5,000	

Waubaushene	Welland	Wellesley	Wellington	West Lorne	Weston	Westport	Wheatley
V.A.	17,367	655	1,012	1,116	9,254	680	1,320
\$	\$	\$	\$	s	\$	s	\$
44,375	1,690,850	49,069	69,866	105,125	1,079,719	37,850	137,285
7,517	379,891	6,081	25,218	30,013	192,110	3,421	22,840
36,858	1,310,959	42,988	44,648	75.110			
	1,310,939	42,700	44,048	75,112	887,609	34,429	114,445
1,746	77,103	142	291	9,190	49,692	2,111	10,086
	119,322	1,000	13,000	4,925		8,000	
935	12,052	456	514	1,350	15,230	84	634
2,681	208,477	1,598	13,805	15,465	64,922	10,195	10,720
220	25.064	4.5	4 004				
320	25,861	15	1,901	1,295	30,936 20,142		239
	58,897	72	1,175	1,107	5,777	15	
220	0.4 550	0.77	0.000				
320 22,931	84,758 1,378,717	87 52,563	3,076 50,853	2,402 105,627	56,855 921,463	15 27,255	67,516
	1,0,0,117			100,027	721,100		07,010
62,790	2,982,911	97,236	112,382	198,606	1,930,849	71,894	192,920
	503,500	4,100			185,513		24,543
142	9,522	1,661	434	55	9,947	42	59
60	26,186	212	956	150	23,039	284	370
202	539,208	5,973	1,390	205	218,499	326	24,972
22,931	1,378,717	52,563	50,853	105,627	921,463	27,255	67,516
	286			7	811		5
22,931	1,379,003	52,563	50,853	105,634	922,274	27,255	67,521
2.040	225 250	8.400	12.016	8,000	119,599	15,000	27,457
3,242	325,750	8,400	13,816		20,142	13,000	21,301
		20.000	46 202	04.202	646,836	29,313	72,475
36,415	733,469	29,960	46,323	84,302	040,030	29,313	12,413
* * * * * * * * * * * * * * * * * * * *	5,481	340		465	3,499		495
39,657	1,064,700	38,700	60,139	92,767	790,076	44,313	100,427
62,790	2,982,911	97,236	112,382	198,606	1,930,849	71,894	192,920
20,953	755,775	23,968	25,693	55,272	487,010	18,572	56,742
13	6,234	81	987	3,421	17,766	595	72
20,966	762,009	24,049	26,680	58,693	504,776	19,167	56,814
11,077	479,639	15,266	20,345	43,072	310,263	11,873	34,798
			2 747	F 000	40.730	1 768	5,058
3,010	74,605	2,433	3,747	5,980	40,739 50,805	1,768 3,208	4,393
2,094	66,843	1,461	3,379	6,113	19,893		3,592
1 122	43,328	492 1,136	1,364	3,176	27,550	884	3,438
1,123	45,996	1,130	1,304				
	710,411	20,788	28,835	58,341	449,250	17,733	51,279
17,304				352	55,526	1,434	5,535
3,662	51,598	3,261	2,155	332			
433	5,380	275	534	424	3,254	288	486

Southern Ontario System—Concluded

			1		1	
Municipality	Whitby	Wiarton	Williams-	Winchester	Windermere	Windsor
Population	11,943	1,968	burg 356	1,348	127	117,712
A. BALANCE SHEETS						
FIXED ASSETS	s	\$	s	. \$	\$	e
Plant and facilities at cost	989,410	119,214	21.516	102,216	28,507	11,614,939
Accumulated depreciation	159,720	16,696	6,184	20,919	6,849	3,628,916
Net fixed assets	829,690	102 519	15 222	94 207	21.650	7.006.022
CURRENT ASSETS	829,090	102,518	15,332	81,297	21,658	7,986,023
Cash on hand and in bank	13,616	2,826	1,090	7,865	7,830	68,529
Investment in government securities	10,000	24,000	15,000		5,400	1,971,299
Accounts receivable	17,734	640	188	2,345	372	486,921
Total current assets	41,350	27,466	16,278	10,210	13,602	2,526,749
OTHER ASSETS Inventory of stores	21,098	607	43	*.* . * * * *		260 265
Sinking fund on local debentures			43	*** * * * * * * *		268,365 180,468
Miscellaneous	200					1,390
Total other assets Equity in Ontario Hydro Systems	21,298 343,906	86,146	23,946	89,563	12 297	450,223
Equity in Ontario riyaro Systems	343,900		23,940	89,303	12,287	11,789,089
	1,236,244	216,737	55,599	181,070	47,547	22,752,084
LIABILITIES						
Debentures outstanding						190,000
Accounts payable		4,822			8	250,974
Other	9,749	172	368	10	• • • • • • • • • • • • • • • • • • • •	173,143
Total liabilities	182,302	4,994	368	10	8	614,117
RESERVES	242.006	06.146	02.046	00 563	40.007	44 700 000
Equity in Ontario Hydro Systems Other	343,906	86,146	23,946	89,563	12,287 90	11,789,089 244,876
Other		23	311	*******	90	244,870
Total reserves	343,906	86,169	24,257	89,563	12,377	12,033,965
Debentures redeemed	110,612	37,400	2,750	29,206	11,238	2,393,832
Local sinking fund						180,468
Accumulated net income invested in		00 174	20.224	62.204	22.024	F F20 703
plant or held as working funds. Frequency standardization expense	599,424	88,174	28,224	62,291	23,924	7,529,702
charged this year						
Total capital	710,036	125,574	30,974	91,497	35,162	10,104,002
	1,236,244	216,737	55,599	181,070	47,547	22,752,084
	,,		00,077	101,070	1,01,	22,702,001
B. OPERATING STATEMENTS						
REVENUE	530.00					
Sales of electric energy	530,990	62,906	9,062	59,321	7,695	4,353,098
Other	4,293	1,115	636	126	240	143,765
Total revenue	535,283	64,021	9,698	59,447	7,935	4,496,863
EXPENSE						
Power purchased	314,830	47,100	8,353	39,983	4,233	2,798,295
Local generation	22 6 47	40.401		2.004		
Operation and maintenance Administration	33,647 62,524	10,404	835	2,994	1,121	748,236
Fixed charges—interest and principal		5,719	951	3,548	799	369,917 8,969
—depreciation	23,712	2,796	645	2,634	814	356,192
other						
Total expense	453,074	66,019	10,784	49,159	6,967	4,281,609
Net income or net expense	82,209	1,998	1,086	10,288	968	215,254
Number of customers	3,681	776	145	550	120	37,050

8,069	20,693	138,079	2,420	2,989	261,194	4,729	16,539,42
108,939	87,842	840,909	11,409	19,628	2,976,568	19,706	153,218,44
							14,31
8,272	1,178 4,303	49,872	701	1,622	198,400	1,040	9,629,18
13,046		51,844 36,731	974 44	1,622	383,365	1,908	6,543,15
8,740	2,593	91,883	1,193	1,742	267,086	1,336 1,908	16,180,46 14,184,26
75,671 3,210	72,954	610,579	8,497	14,636	2,127,717	15,422	106,155,09
117,008	108,535	978,988	13,829	22,617	3,237,762	24,435	169,757,87
109,582 7,426	107,233 1,302	968,396 10,592	13,812	22,054 563	3,204,911 32,851	24,433	167,481,62
455,445	354,483	3,226,717	56,130	92,399	10,108,743	88,953	570,498,8
275,272	171,439	1,494,209	22,716	57,435	5,587,036	40,881	256,941,60
194,117	160,786	1,159,396	17,468	47,665	5,058,009 39,652	35,028	179,895,2
						25 000	1,726,1
81,155	10,567	345,701	5,248	9,700	489,375	5,592	75,029,3
176,805	166,021	1,613,041	32,679	34,797	3,850,923	47,992	229,139,3
176,714 91	165,635 386	1,612,412 629	32,202 477	34,733 64	3,798,715 52,208	47,992	226,415,0 2,724,2
3,368	17,023	119,467	735	167	670,784	80	84,417,9
161 3,207	804 3,219	27,643	685	59 108	450,613	80	6,153,93
	13,000	81,685 10,139	405		220,171		68,313,53 9,950,48
455,445	354,483	3,226,717	56,130	92,399	10,108,743	88,953	570,498,88
10,899 176,714	56 165,635	8,172 1,612,412	40 32,202	124 34,733	106,376 3,798,715	48 47,992	12,818,08 226,415,09
1,936		7,239			2,329		2,318,77
8,963	56	933	40	124	104,047	48	8,773,13 1,726,18
78,884	69,258	262,124	1,941	17,700	1,199,619	5,520	37,465,5
60,000 187	24,550 1,800	135,000 18,185	274	9,120 3,017	554,000 286,242	437	14,806,88 12,940,41
18,697	42,908	108,939	1,667	5,563	359,377	5,083	9,718,26
188,948	119,534	1,344,009	21,947	39,842	5,004,033	35,393	293,800,13
271,624 82,676	155,466 35,932	1,783,077 439,068	26,821 4,874	55,432 15,590	6,874,203 1,870,170	41,956 6,563	367,639,26 73,839,12
\$	\$	\$	\$	\$	\$	s	\$
2,715	2,243	19,458	409	843	123,555	624	System
							ONTARIO

Northern Ontario Properties

Net income or net expense	18,334	851	10,628	12,750	13,589	7,007
Total expense	245,620	29,439	85,127	125,664	158,769	45,096
other						
—depreciation	10,818	1,285	4,063	2,583	9,272	3,744 2,079
Fixed charges—interest and principal	32,527 30,493	1,959 2,485	9,754 3,906	9,435 9,915	22,453 12,625	4,551
Operation and maintenance Administration	11,784	963	6,544	9,686	22,940	3,400
	159,998	22,747	60,860	94,045	91,479	31,322
EXPENSE						
Total revenue	263,954	30,290	95,755	138,414	172,358	52,103
Other	4,058	918	405	20	1,691	187
B. OPERATING STATEMENTS REVENUE Sales of electric energy	259,896	29,372	95.350	138,394	170,667	51.916
	590,597	59,255	147,870	137,036	371,968	107,184
Total capital	147,941	49,035	108,999	34,956	252,707	49,015
Frequency standardization expense charged this year						
Local sinking fund Accumulated net income invested in plant or held as working funds.	109,941	31,035	75,399	18,956	207,957	44,515
CAPITAL Debentures redeemed	36,516	18,000	33,600	16,000	205	4,500
Other Total reserves	26 546	49	381	122	205	186
Total liabilities	406,140 36,516	10,171	38,490	101,958	119,056	57,983
Other	5,158 38,982	105	1,690 1,400	528 2,430	7,175 11,631	5,102 7,381
LIABILITIES Debentures outstanding Accounts payable	362,000	10,000	35,400	99,000	100,250	45,500
	590,597	59,255	147,870	137,036	371,968	107,184
Total other assets Equity in Ontario Hydro Systems	15,904 36,516	1,309	3,215	5,933	25,164	711
Sinking fund on local debentures Miscellaneous	13,138	1,299	3,215	5,933	10,990	393
OTHER ASSETS Inventory of stores	2,766	10			14,174	318
Accounts receivable	7,863	13,594	8,102	9,813	3,658	9,816
Cash on hand and in bank Investment in government securities	77,063 50,000	1,836 11,673	6,657	5,479	26,510	10,088
Net fixed assets	403,251	44,352	136,553	121,290	316,636	86,569
A. BALANCE SHEETS FIXED ASSETS Plant and facilities at cost Accumulated depreciation	\$ 464,267 61,016	\$ 53,273 8,921	\$ 163,905 27,352	\$ 126,158 4,868	\$ 376,875 60,239	\$ 95,794 8,225
			2,303	3,773	4,261	2,568
Population	6,906	845	2,563	2 772	1	0.500

Dryden	Fort William	Hearst	Kapuskas- ing	Larder Lake Twp.	Latchford	Massey	McGarry	Nipigon
5,475	42,900	2,110	6,039	1,973	440	1,270	2,969	Twp. 2,633
\$	\$	\$	\$	\$	\$	\$	\$	\$
451,219	3,715,623	211,931	354,885	61,710	31,607	80,460	70,387	153,654
84,088	684,022	24,262	13,907	21,260	5,377	4,520	14,637	24,218
367,131	3,031,601	187,669	340,978	40,450	26,230	75,940	55,750	129,436
. 42	55,146	21,910		10.027	6 506	4 700	4.055	0.746
42	85,800	40,000		10,037	6,506	1,782	1,057	2,716 29,623
16,687	112,889	7,180	3,858	597	3,780	2,526	5,358	566
16,729	253,835	69,090	3,858	10,634	10,286	4,308	6,415	32,905
		,		20,002	10,200	1,000	0,110	32,703
11,929	159,510		16,347					774
• • • • • • • •	4,311	5,488	1,989	2,292		2,856	231	, , , , , , , , , , , ,
11,929	163,821	5,488	18,336	2,292		2,856	231	774
47,233	4,225,627							79,594
443,022	7,674,884	262,247	363,172	53,376	36,516	83,104	62,396	242,709
71,754	279,000	65,200	41,844	7,200	2 277	38,000	6,000	
15,483 17,223	174,949 75,995	1,305 6,163	6,431 9,432	803 6,103	3,377	36 1,587	13 6,438	2,601
104,460	529,944	72,668	57,707	14,106	3,732	39,623	12,451	2,601
104,400	329,744	12,000	37,107	14,100	0,702	07,020	12,101	
47,233	4,225,627	5,087	518	135	39			79,594
454	3,341	3,007	316	155				
47,687	4,228,968	5,087	518	135	39			79,594
54,676	535,209	74,800	48,635	10,800	18,901	7,000	8,000	10,000
236,199	2,380,763	109,692	256,312	28,335	13,844	36,481	41,945	150,514
290,875	2,915,972	184,492	304,947	39,135	32,745	43,481	49,945	160,514
443,022	7,674,884	262,247	363,172	53,376	36,516	83,104	62,396	242,709
110,022	1,012,002							
	4		400 455	48.637	0.000	36,803	52,871	74,167
228,686 6,210	1,659,219 18,685	84,506 1,400	198,455 2,469	48,037	8,988	30,803	31	2,288
			200 024	40 (01	0 000	26 903	52,902	76,455
234,896	1,677,904	85,906	200,924	48,681	8,988	36,803	52,702	70,300
0.4.4%	1 071 70	58,191	135,760	33,607	5,917	16,112	37,204	46,350
94,476	1,071,706	38,191	133,700	33,007				
35,111	151,127	7,318	14,180	3,541	503	5,656	1,641	9,129 8,751
25,402	117,240	8,360	24,398	5,145	1,009	5,423	6,891 1,280	8,751
9,476	31,375	8,637	6,474	1,618	1 758	3,876 1,590	1,280	3,671
10,520	91,120	3,773	6,931	1,976	138	1,590	1,091	
	1,462,568	86,279	187,743	45,887	8,188	32,657	48,907	67,907
174,985				2,794	800	4,146	3,995	8,548
59,911	215,336	373	13,181					
1,642	13,464	601	1,977	567	153	375	481	725

Northern Ontario Properties—Concluded

Municipality	North Bay	Port Arthur	Rainy River	Red Rock	Schreiber	Sioux
Population		41,761	1,283	1,614	Twp. 2,104	Lookout 2,613
A. BALANCE SHEETS						
FIXED ASSETS	\$	\$	\$	\$	\$	\$
Plant and facilities at cost		4,529,772	76,301	96,868	129,128	202,408
Accumulated depreciation	349,656	1,542,599	38,753	17,195	18,580	23,052
Net fixed assets	1,241,168	2,987,173	37,548	79,673	110,548	179,356
Cash on hand and in bank		163,237	14,046	15,774	18,375	444
Investment in government securities Accounts receivable	25,745	376,000 169,423	8,179	618	15,000 720	5,000 4,029
Total current assets OTHER ASSETS	26,845	708,660	22,225	16,392	34,095	9,473
Inventory of stores	48,858	184,466	2,531			7,317
Sinking fund on local debentures						
Miscellaneous	6,274	6,362		3,571	• • • • • • • • • • • • • • • • • • • •	
Total other assets	55,132	190,828	2,531	3,571		7,317
Equity in Ontario Hydro Systems		7,860,431		29,074	35,917	
	1,323,145	11,747,092	62,304	128,710	180,560	196,146
LIABILITIES						
Debentures outstanding	365,000		12,000	14,820		,
Accounts payable	34,182	232,485	299	65		507
Other	75,011		300	110		6,425
Total liabilities	474,193	232,485	12,599	14,995		6,932
Equity in Ontario Hydro Systems		7,860,431		29,074	35,917	
Other	2,029	109,607	519			
Total reserves	2,029	7,970,038	519	29,074	35,917	
CAPITAL				,		
Debentures redeemed	295,158	626,317	14,087	16,380	50,000	
Accumulated net income invested in						
plant or held as working funds.	551,765	2,918,252	35,099	68,261	94,643	189,214
Frequency standardization expense charged this year						
Total capital	846,923	3,544,569	49,186	84,641	144,643	189,214
	1,323,145	11,747,092	62,304	120 710	100 7/0	10/ 14/
	1,323,143	11,747,092	02,304	128,710	180,560	196,146
B. OPERATING STATEMENTS REVENUE						
Sales of electric energy	858,118	1,715,754	57,736	41,677	52,186	124,001
Other	1,017	55,033	263	319	1,205	1,767
Total revenue	859,135	1,770,787	57,999	41,996	53,391	125,768
EXPENSE						
Power purchasedLocal generation	516,133	1,174,245	25,738	23,802	31,544	78,202
Operation and maintenance	75,872	19,113 158,505	0.720	2.256	4.010	14.600
Administration	107,737	112,517	9,739 7,188	2,356 3,638	4,912 8,430	14,689 14,887
Fixed charges—interest and principal	33,795		4,440	2,251	1,566	545
—depreciation	41,910	80,827	2,879	2,428	3,092	4,672
other					•••••	
Total expense	775,447	1,545,207	49,984	34,475	49,544	112,995
Net income or net expense	83,688	225,580	8,015	7,521	3,847	12,773
Number of customers	7,294	13,344	452	325	634	929

1,579	15,877	416	539	146	1,744	69,227	1,310,099
5,147	223,974	7,996	4,110	1,540	10,481	966,169	17,505,596
133,585	1,547,060	53,947	52,744	16,277	186,738	7,362,839	160,581,287
7,098	89,300	4,320	2,000				14,316
8,627	70,202 89,360	5,625 4,328	5,176 2,638	2,634 769	8,833	401,164	10,030,350
20,894	169,719	5,349	11,915	2,220	22,768 20,845	770,560 281,617	14,954,828 6,824,770
14,450	277,690	2,722	5,233	4,921	30,001	884,613	17,065,080
82,516	940,089	35,923	27,782	5,733	104,291	5,005,772 19,113	111,160,867 531,076
138,732	1,771,034	61,943	56,854	17,817	197,219	8,329,008	178,086,883
138,310 422	1,753,384 17,650	58,020 3,923	235		3,578	123,818	2,400,070
420 240	4 752 204	58 030	56,619	17,817	193,641	8,205,190	175,686,813
292,258	3,660,177	292,408	100,976	40,213	452,771	29,112,096	599,610,980
170,217	3,315,066	188,410	37,105	13,885	153,378	13,401,996	270,343,603
							290,816
153,217	2,491,833	153,310	28,605	9,226	114,378	10,549,691	190,444,985
17,000	823,233	35,100	8,500	4,659	39,000	2,852,305	77,881,620 1,726,182
526	16,635	61,098	124		724	12,516,171	241,655,507
526	16,635	61,098	124		724	12,375,490 140,681	238,790,589 2,864,918
121,515	328,476	42,900	63,747	26,328	298,669	3,193,929	87,611,870
28,494 10,021	22,090 112,281		5,371 1,876	711 276	93,191 16,978	639,511	10,589,995 6,565,031
83,000	194,105	42,900	56,500	25,341	188,500	2,143,314	70,456,844
292,258	3,660,177	292,408	100,976	40,213	452,771	29,112,096	599,610,980
2,747	160,472	2,023 61,098	3,437	1,623	22,943	710,587 12,375,490	13,528,676 238,790,589
2,747	18,868	2,023	3,437	1,623	5,469	102,509	2,421,279
	141,604				17,474	608,078	9,381,215 1,726,182
12,609	379,361	91,907	19,499	2,511	10,281	1,958,425	39,423,984
12,459	75,200 104,976	65,000 265	7,797	633	7,893	753,296 523,379	15,560,183 13,463,791
276,902	3,120,344	137,380 26,642	78,040 11,702	36,079 1,878	419,547 2,388	14,067,594	307,867,731
41,205	540,870	33,634	21,824	1,667	36,501	3,712,448	77,551,575
\$ 318,107	\$ 3,661,214	\$ 171,014	\$ 99,864	\$ 37,746	\$ 456,048	\$ 17,780,042	\$ 385,419,306
6,281	47,971	1,862	1,741	590	Twp, 4,682	ONTARIO PROPERTIES	ALL SYSTEMS
Sturgeon Falls	Sudbury	Terrace Bay	Thessalon	Webbwood	West Ferris	TOTAL NORTHERN	TOTAL

INTRODUCTION TO STATEMENT "C" AND STATEMENT "D"

STATEMENT "C"

Statement "C" is the schedule of resale rates for domestic, commercial, and power service in the municipal distribution systems receiving power from the Commission. From time to time as revision becomes necessary, these rates are adjusted to the new rate structures introduced in 1956.

Description of Classes of Service

Domestic rates are applicable to all electrical service for household purposes, with the exception of house heating and flat-rate water-heaters. Charges for normal domestic service are based on specified blocks of kilowatt-hours per month with suitable rates for each block. The account is subject to a minimum monthly charge and to a prompt payment discount of 10 per cent. For comparative purposes, net monthly bills are shown for metered energy consumptions of 100, 300, and 500 kilowatt-hours per month.

The water-heater rates shown in Statement "C" are for unmetered flat-rate service which is billed at a monthly rate per 100 watts of heater capacity. In many municipalities the flat-rate water-heater load is subject to peak-load control by the utility. The customer, of course, has the option of paying for water heating at regular rates through the regular metered service. House-heating rates quoted are for separately metered consumption where an area greater than 25 per cent of the total is heated by electricity.

Commercial rates are applicable to all electrical service supplied to stores, offices, churches, schools, public buildings, institutions, hospitals, hotels, restaurants, service stations, and other premises used for commercial purposes. The commercial rates are also used for billing sign and display lighting. In most municipalities on the new rate structures, commercial-type customers having connected loads of less than five kilowatts are billed at domestic rates. Otherwise commercial accounts consist of a monthly demand rate (with a minimum) applied to the customer's billing demand, plus energy rates for specified blocks of kilowatt-hours used, the size of the blocks varying in accordance with the customer's billing demand. The energy rates, depending on whether the old or new rate structures are in effect, are applied to either one or two blocks of kilowatt-hours based on 100 hours' monthly use of the billing demand, all remaining monthly kilowatt-hours being billed at a final energy rate. The account is subject to a minimum monthly charge and to a prompt payment discount of 10 per cent. The net monthly bills shown are calculated on the basis of a demand of one kilowatt for a use per month of 100, 200, and 300 hours. The corresponding bill for a demand of ten kilowatts for the same number of hours' use would be ten times the amounts shown, and for x kilowatts would be x times the amounts shown.

The rates for power service to customers of the municipal utilities and local systems provide for 24-hour unrestricted delivery at secondary distribution voltage. These rates, however, are not applicable to certain industrial customers who are served directly by the Commission.

The power service account, like the commercial service account, consists of a monthly demand rate applied to the customer's billing demand, plus energy rates for specified blocks of kilowatt-hours used, the size of the blocks varying in accordance with the customer's billing demand. The energy rates, depending on whether the old or new rate structures are in effect, are applied either to 50 hours' monthly use of the customer's billing demand at each of the first and second rates or to 100 hours' monthly use at each of these two rates. All remaining monthly kilowatt-hours are billed at a third energy rate. The account is subject to a prompt payment discount of 10 per cent. Customers providing their own step-down transformation are granted, on the basis of their billing demand, an allowance of 27¢ per kilowatt per month gross for service at subtransmission voltage and 17¢ per kilowatt per month gross for service at primary distribution voltage. The net monthly bills shown are calculated on the same basis as for commercial service.

STATEMENT "D"

Statement "D" records revenue, consumption, number of customers, average consumption per customer, and average cost per kilowatt-hour for each of the three main classes of service in all the municipal systems served. The revenue and consumption from house heating and the use of flat-rate water-heaters are included in the totals shown, the flat-rate kilowatt-hours being estimated on the basis of 16.8 hours' use per day.

With the introduction of the new rate structures there may be a shift during the year of a substantial group of customers with small connected loads from commercial service rates to domestic service rates. For statistical purposes they will thereafter be included in the domestic service group. Similarly certain small power service customers may be reclassified under commercial service.

The average cost per kilowatt-hour shown is the average cost to the customer, that is the average revenue per kilowatt-hour received by the utility. Such a statistical average does not represent the utility's actual cost of delivering one kilowatt-hour. However, a comparison of this average over a number of years is some indication of the trend of cost in any one municipality, and the trend in all municipal systems combined may be seen in the table on page 188 and the graphs on page 189. Other things being equal, the average cost per kilowatt-hour would rise with an increase in rates. Consumption per customer, however, is continuously increasing, and domestic customers in particular are using an ever-increasing variety of electrical appliances, including flat-rate water-heaters. Such increased use, since it is billed at the low rates usually applicable to higher-consumption blocks of kilowatt-hours, is frequently reflected in a lower average cost per kilowatt-hour.

For power service customers, the relationship between demand (kilowatts required) and energy (kilowatt-hours of use) is an important factor in establishing the individual's average cost per kilowatt-hour. The use of the demand for only a few hours will result in a relatively small total bill but a high average cost per kilowatt-hour; the use of the same demand for several hours will increase the total bill but substantially reduce the average cost per kilowatt-hour. In other words, the average cost per kilowatt-hour varies inversely with the customer's load factor.

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a m	inimum
					Domi	ESTIC SEI	RVICE			
Municipálity	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	Number of kwh supplied in first block		Rate p	er kwh or		Net	monthly for	bill
	Flat-rat per or scho	■House he	Number of in fire	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Acton Ailsa Craig. Ajax Alexandria. Alfred.	¢ No. 45 45 37 40 42	1.67 1.67 1.67 1.67 1.67	No. 50 50 50 50 50	¢ 3.0 3.0 3.4 2.4 3.2	¢ 1.5 1.5 1.7 1.2 1.6	6 0.9 0.8 1.0 0.7 0.9	1.2 1.2 1.4 1.0 1.3	\$ 2.02 2.02 2.29 1.62 2.16	\$ 4.45 4.41 5.04 3.55 4.72	\$ 6.07 5.85 6.84 4.81 6.34
Alliston		1.67 1.67 1.67 1.67	60 50 60 50	3.1 2.4 3.5 3.0 4.2	1.2	0.7	1.0 1.0 1.0 1.2	2.03 1.62 2.25 2.02 2.70	3.83 3.55 4.05 4.41 4.86	5.63 4.81 5.85 5.85 7.02
Apple HillArkonaArnpriorArthurAthens	56 43 37 43 40	1.67 1.67	60 50 50 50 50	4.0 3.2 2.4 2.8 2.0	1.6 1.2 1.4 1.0	1.0 0.7 0.8 0.7	1.0 1.4 1.0 1.1 1.0	2.52 2.16 1.62 1.89 1.35	4.32 4.77 3.55 4.14 3.01	6.12 6.57 4.81 5.58 4.27
Atikokan TwpAuroraAvonmoreAylmerAyr	37 40	1.67 1.67 1.67 1.67	50 50 50 50 60	3.2 2.4 4.0 2.2 2.9	1.6 1.2 2.0 1.1	1.0 0.7 1.1 0.7	1.4 1.0 1.6 1.0	2.16 1.62 2.70 1.48 1.93	4.77 3.55 5.89 3.28 3.73	6.57 4.81 7.87 4.54 5.53
Baden †Bala. Bancroft. Barrie. Barry's Bay.	i	1.67 1.67 1.67 1.67 1.67	50 50 60 60 50	2.8 4.4 3.5 2.4 3.0	1.4 2.2 1.5	0.8 1.2 0.9	1.1 1.6 1.3 1.0	1.89 2.97 2.36 1.66 2.02	4.14 6.48 4.70 3.46 4.45	5.58 8.64 7.04 5.26 6.07
Bath Beachville Beamsville †Beardmore Beaverton		1.67 1.67 1.67 1.67 1.67	60 50 60 50 60	3.5 2.8 2.7 4.0 2.8	1.4	0.8	1.2 1.1 1.2 1.6 1.2	2.32 1.89 1.89 2.70 1.94	4.48 4.14 4.05 5.94 4.10	6.64 5.58 6.21 8.10 6.26
Beeton Belle River. Belleville. Blenheim. †Blind River.	35 44	1.67 1.67 1.67 1.67 1.67	60 50 60 50 50	3.8 3.6 1.8 2.8 3.8	1.8 1.4 1.9	1.1	1.2 1.5 0.8 0.8 1.5	2.48 2.43 1.26 1.89 2.56	4.64 5.35 2.70 4.14 5.62	6.80 7.33 4.14 5.58 7.60
Bloomfield Blyth. Bobcaygeon. Bolton. Bothwell	45 40 45	1.67 1.67 1.67 1.78 1.67	50 50 60 50 60	2.0 2.8 3.4 3.6 2.6	1.0 1.4 1.8	0.7 0.8 1.1	1.0 1.1 1.2 1.5 1.0	1.35 1.89 2.27 2.43 1.76	3.01 4.14 4.43 5.35 3.56	4.27 5.58 6.59 7.33 5.36

[†]Local system

For explanatory notes and water-heating schedules see pages 264 to 267.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1959

are subject to 10% prompt payment discount monthly charge

monini	y charg	E												
	Cor	MMERCI.	AL SERV	VICE .					Pov	VER SE	RVICE			
mini Ene kw	emand rate 100 was 5.0 cents mum 50 ergy rate who for use	cents	f	monthly or use of v of dem	f	te per kw		f	y rate p or use (kw of d	of			monthly for use o v of dem	f
each	kw of de					ra								
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand rate per	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
- 1	1	é					,	,	,					
°2.6	¢ 0.8	0.5	\$ 2.79	\$ 3.51	\$ 3.96	\$	¢	é	¢	¢	¢	\$	\$	\$
°2.7	0.8	0.5	2.79	3.60	4.05	1.00		2.1		0.5	0.33	2.79	3.24	3.54
°2.5	0.8	0.5	2.70	3.42	3.87	1.00		2.1		0.5	0.33	2.79	3.24	3.54
°2.3	0.8	0.5	2.52	3.42	3.69	1.00		1.8		0.5	0.33	2.52	2.97	3.27
°2.6	0.8	0.5	2.79	3.51	3.96	1.00		1.8		0.5	0.33	2.52	2.97	3.27
2.0	0.0	0.5	2.17	5.51	3.70	1.00		2.0		0.5	0.33	2.70	3.15	3.45
2.6		1.0	2.79	3.69	4.59	1.20	1.9		1.3		0.30	2.52	2.79	3.06
°1.9	0.8	0.5	2.16	2.88	3.33	1.00		1.1		0.5	0.33	1.89	2.34	2.64
3.0		0.9	3.15	3.96	4.77	1.35	2.8		1.8		0.33	3.28	3.58	3.88
°2.8	0.8	0.5	2.97	3.69	4.14	1.00		2.2		0.5	0.33	2.88	3.33	3.63
3.6		1.0	3.69	4.59	5.49	1.35	2.9		1.9		0.33	3.37	3.67	3.97
3.5		1.0	3.60	4.50	5.40	1.35	2.8		1.8		0.33	3.28	3.58	3.88
°2.9	0.8	0.5	3.06	3.78	4.23	1.00		2.4	:	0.5	0.33	3.06	3.51	3.81
°1.9	0.8	0.5	2.16	2.88	3.33	1.00		1.4		0.5	0.33	2.16	2.61	2.91
°2.5	0.8	0.5	2.70	3.42	3.87,	1.00		1.8		0.5	0.33	2.52	2.97	3.27
°1.5	0.8	0.5	1.80	2.52	2.97	1.00		1.0		0.5	0.33	1.80	2.25	2.55
°3.0	0.8	0.5	3.15	3.87	4.32	1.00		2.0		0.5	0.33	2.70	3.15	3.45
°1.9	0.8	0.5	2.16	2.88	3.33	1.00		1.4		0.5	0.33	2.16	2.61	2.91
°3.0	0.8	0.5	3.15	3.87	4.32	1.00		2.0		0.5	0.33	2.70	3.15	3.45
°1.9	0.8	0.5	2.16	2.88	3.33	1.00		1.4		0.5	0.33	2.16	2.61	2.91
2.4		0.9	2.61	3.42	4.23	1.20	2.1		1.4		0.30	2.65	2.92	3.19
°2.3	0.8	0.5	2.52	3.24	3.69	1.00		1.7		0.5	0.33	2.43	2.88	3.18
4.2	0.8	0.5	4.23	4.95	5.40	1.00		2.7		0.5	0.33	3.33	3.78	4.08
3.0		1.2	3.15	4.23	5.31	1.20	2.1		1.4		0.30	2.65	2.92	3.19
2.0		0.8	2.25	2.97	3.69	1.00	1.4		0.9		0.25	1.93	2.16	2.38
°2.6	0.8	0.5	2.79	3.51	3.96	1.00		2.1		0.5	0.33	2.79	3.24	3.54
						4.05	2.5		0.2		0.22	200	4.10	4.40
3.0		1.2	3.15	4.23	5.31	1.35	3.5	4.0	2.3	0.5	0.33	3.82 2.61	3.06	4.42
°2.4	0.8	0.5	2.61	3,33	3.78	1.00	1.0	1.9	1.2	0.5	0.33	2.52	2.79	3.36
2.3		1.1	2.52	3.51	4.50	1.20	1.9	2.9	1.3	0.5	0.33	3.51	3.96	3.06 4.26
°3.8	0.8	0.5	3.87	4.59	5.04 4.23	1.00	2.0	2.9	1.3		0.33	2.70	3.00	3.29
2.2		1.0	2.43	3.33	4.23									
3.4		1.2	3.51	4.59	5.67	1.35	2.8		1.8		0.33	3.28	3.58	3.88
°3.0	0.8	0.5	3.15	3.87	4.32	1.00		2.2		0.5	0.33	2.88		3,63
1.6		0.6	1.89	2.43	2.97	1.00	1.3		0.8		0.25	1.84	2.07	2.29
°2.4	0.8	0.5	2.61	3.33	3.78	1.00		1.9		0.5	0.33	2.61	3.06	3.36
°3.6	0.8	0.5	3.69	4.41	4.86	1.00		2.7		0.5	0.33	3.33	3.78	4.08
°1.8	0.9	0.5	2.07	2.79	3.24	1.00		1.3		0.5	0.33	2.07	2.52	2.82
	0.8	0.5	2.70	3.42	3.87	1.00		2.0		0.5	0.33	2.70	3.15	3.45
°2.5 2.9	0.8	0.5	3.06	3.96	4.86	1.35	2.3		1.5		0.33	2.92	3.22	3.52
°3.0	0.8	0.5	3.15	3.87	4.32	1.00		2.1		. 0.5	0.33	2.79	3.24	3.54
2.1		0.3	2.34	2.97	3.60	1.35	2.3		1.5		0.33	2.92	3.22	3.52
2.1		0.7	2.01	2.71										

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and

						Kates d	ire guote	a on a n		asis ana iinimum
					Dom	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	ating per kwh	of kwh supplied first block		Rate r	oer kwh or		Net	t monthly for	bill
	Flat-rat per or sch	■House heating per	Number of in firs	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Bowmanville	¢ No. 35 39 40 49 37	1.67 1.67 1.67	No. 50 60 50 50	¢ 2.4 3.0 2.8 4.0 2.6	¢ 1.2 1.4	6 0.7 0.8 	1.0 1.2 1.1 1.3 1.1	\$ 1.62 2.05 1.89 2.38 1.75	\$ 3.55 4.21 4.14 4.72 3.87	\$ 4.81 6.37 5.58 7.06 5.31
Brantford	41 42 45 40 45	1.67 2.0 1.67 1.67	60 50 50 50 50	2.2 4.0 2.6 3.0 2.6	2.0 1.3 1.5 1.3	1.2 0.7 0.9 0.7	1.2 1.6 1.0 1.2 1.0	1.62 2.70 1.75 2.02 1.75	3.78 5.94 3.82 4.45 3.82	5.94 8.10 5.08 6.07 5.08
Brighton Brockville Brussels Burford Burgessville	39 38 45 43 43	1.67 1.67 1.67 	50 60 60 50 60	2.6 2.0 3.2 3.4 4.0	1.3	0.7	1.0 1.0 1.0 1.4 1.0	1.75 1.44 2.09 2.29 2.52	3.82 3.24 3.89 5.04 4.32	5.08 5.04 5.69 6.84 6.12
Burk's Falls. \$Burlington. Cache Bay. Caledonia. Campbellford.	45 42 45 43 35	1.67 1.67 1.67	50 50 50 60 50	3.4 4.0 3.6 2.4 2.0	1.7 2.0 1.8 	1.0 1.2 1.1 	1.4 1.6 1.5 1.2 1.0	2.29 2.70 2.43 1.73 1.35	5.04 5.94 5.35 3.89 3.01	6.84 8.10 7.33 6.05 4.27
Campbellville	50 48 43 40 39	1.67	60 60 60 50 50	3.0 3.2 3.5 2.6 3.2	1.3	0.8	1.3 1.0 1.3 1.1 1.4	2.09 2.09 2.36 1.75 2.16	4.43 3.89 4.70 3.87 4.77	6.77 5.69 7.04 5.31 6.57
Casselman Cayuga. Chalk River. Chapleau Twp. Chatham.	41 42 38 	1.67 1.67	50 50 50 60	3.4 2.8 2.6 9.0 3.8	1.7 1.4 1.3	1.0 0.8 0.8	1.4 1.1 1.1 4.0 1.4	2.29 1.89 1.75 6.30 2.56	5.04 4.14 3.87 13.50 5.08	6.84 5.58 5.31 20.70 7.60
Chatsworth Chesley Chesterville Chippawa Clifford	46 41 41 40 45	1.67 1.67 1.67 	50 60 60 60 50	2.8 2.7 2.7 3.1 3.2	1.4	0.8	1.1 1.0 1.1 1.4 1.4	1.89 1.82 1.85 2.18 2.16	4.14 3.62 3.83 4.70 4.77	5.58 5.42 5.81 7.22 6.57
Clinton	41 42 33 41 35	1.67 1.67 1.67 1.67	50 60 50 50 60	3.0 4.2 1.6 3.0 3.4	1.5 0.8 1.5	0.9 0.5 0.8	1.2 1.5 1.0 1.2 1.5	2.02 2.81 1.08 2.02 2.38	4.45 5.51 2.38 4.41 5.08	6.07 8.21 3.28 5.85 7.78

[†]Local system

For explanatory notes and water-heating schedules see pages 264 to 267.

Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1959

are subject to 10% prompt payment discount monthly charge

1	monthly	y charge	e												
		Con	MERCIA	AL SERV	ICE					Pow	VER SEI	RVICE			
	per 5 minir Ene kw	emand ra r 100 wa 5.0 cents num 50 ergy rate h for use kw of de	cents per	fe	monthly or use of of dema	`	ate per kw		fe	rate poor use o	f		f	monthly or use of of dema	
	First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand rate per	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
	¢ °1.7 2.0 °2.6 4.0 °2.2	0.8 0.8 0.8 0.8	6 0.5 1.0 0.5 1.0 0.5	\$ 1.98 2.25 2.79 4.05 2.43	\$ 2.70 3.15 3.51 4.95 3.15	3.15 4.05 3.96 5.85 3.60	\$ 1.00 1.20 1.00 1.35 1.00	¢ 1.4 2.0	1.2 1.8 	0.9	0.5 0.5 0.5	0.33 0.30 0.33 0.33 0.33	\$ 1.98 2.11 2.52 2.70 2.16	\$ 2.43 2.38 2.97 3.00 2.61	\$ 2.73 2.65 3.27 3.29 2.91
	1.8 °2.9 °2.6 °2.5 °2.5	0.8 0.8 0.8 0.8	0.7 0.5 0.5 0.5 0.5	2.07 3.06 2.79 2.70 2.70	2.70 3.78 3.51 3.42 3.42	3.33 4.23 3.96 3.87 3,87	1.20 1.00 1.00 1.00 1.00	1.4	2.2 1.4 1.6 2.0	0.9	0.5 0.5 0.5 0.5	0.30 0.33 0.33 0.33 0.33	2.11 2.88 2.16 2.34 2.70	2.38 3.33 2.61 2.79 3.15	2.65 3.63 2.91 3.09 3.45
	°2.3 1.7 2.7 °2.9 3.5	0.8	0.5 0.8 0.8 0.5 0.8	2.52 1.98 2.88 3.06 3.60	3.24 2.70 3.60 3.78 4.32	3.69 3.42 4.32 4.23 5.04	1.00 1.20 1.35 1.00 1.35	1.4 2.8 2.9	1.5 2.1	0.9 1.8 	0.5	0.33 0.30 0.33 0.33 0.33	2.25 2.11 3.28 2.79 3.37	2.70 2.38 3.58 3.24 3.67	3.00 2.65 3.88 3.54 3.97
	°2.8 °2.9 °3.5 1.9 °1.2	0.8 0.8 0.8 	0.5 0.5 0.5 1.1 0.5	2.97 3.06 3.60 2.16 1.53	3.69 3.78 4.32 3.15 2.25	4.14 4.23 4.77 4.14 2.70	1.00 1.00 1.00 1.35 1.00	2.3	2.3 2.2 3.0 	1.5	0.5 0.5 0.5 	0.33 0.33 0.33 0.33	2.97 2.88 3.60 2.92 1.53	3.42 3.33 4.05 3.22 1.98	3.72 3.63 4.35 3.52 2.28
	2.8 2.8 3.0 °2.3 °2.8	0.8	1.1 0.9 1.1 0.5 0.5	2.97 2.97 3.15 2.52 2.97	3.96 3.78 4.14 3.24 3.69	4.95 4.59 5.13 3.69 4.14	1.35 1.35 1.35 1.00 1.00	3.5 2.2 2.9	1.8 1.8	2.3 1.4 1.9	0.5	0.33 0.33 0.33 0.33 0.33	3.82 2.83 3.37 2.52 2.52	4.12 3.13 3.67 2.97 2.97	4.42 3.43 3.97 3.27 3.27
r	°2.9 °2.6 °2.1 8.5 3.3	0.8 0.8 0.8 	0.5 0.5 0.5 4.0 1.2	3.06 2.79 2.34 8.10 3.42	3.78 3.51 3.06 11.70 4.50	4.23 3.96 3.51 15.30 5.58	1.00 1.00 1.00 1.35 1.35	5.7	2.2 2.1 1.4	3.8	0.5 0.5 0.5	0.33 0.33 0.33 2.00 0.40	2.88 2.79 2.16 5.49 2.70	3.33 3.24 2.61 7.29 3.00	3.63 3.54 2.91 9.09 3.29
	°2.5 2.3 2.2 2.6 °3.1	0.8	0.5 1.0 1.1 1.3 0.5	2.70 2.52 2.43 2.79 3.24	3.42 3.42 3.42 3.96 3.96	3.87 4.32 4.41 5.13 4.41	1.00 1.20 1.35 1.20 1.00	1.9 2.0 1.9	2.0	1.3 1.3 1.3	0.5	0.33 0.30 0.33 0.30 0.33	2.70 2.52 2.70 2.52 3.24	3.15 2.79 3.00 2.79 3.69	3.45 3.06 3.29 3.06 3.99
	°2.6 3.7 °1.3 °2.4 2.9	0.8 0.8 0.8	0.5 1.5 0.5 0.5 1.4	2.79 3.78 1.62 2.61 3.06	3.51 5.13 2.34 3.33 4.32	3.96 6.48 2.79 3.78 5.58	1.00 1.35 1.00 1.00 1.35	2.0	2.0 0.8 1.6	1.3	0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.70 2.70 1.62 2.34 2.92	3.15 3.00 2.07 2.79 3.22	3.45 3.29 2.37 3.09 3.52

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a n	iinimum
					Doм	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block		Rate i	per kwh or		Net	t monthly for	bill
	Flat-rat per or sche	■House he	Number of in firs	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Colborne	¢ No. 43 45 41 45 42	1.67 1.67 1.67	No. 60 60 60 50 50	\$ 3.8 3.2 2.5 3.0 3.2	¢ 1.5 1.6	¢ 0.9 1.0	¢ 1.0 1.0 1.1 1.2 1.4	\$ 2.41 2.09 1.75 2.02 2.16	\$ 4.21 3.89 3.73 4.45 4.77	\$ 6.01 5.69 5.71 6.07 6.57
Cookstown. Cottam. Courtright. Creemore. Dashwood.	51 41 43 44 45	1.67	45 50 50 50 50	4.3 2.8 2.4 3.1 3.6	1.4 1.2 	0.8 0.7 	1.0 1.1 1.0 1.0 1.5	2.24 1.89 1.62 1.84 2.43	4.04 4.14 3.55 3.64 5.35	5.84 5.58 4.81 5.44 7.33
Deep River. Delaware. Delhi Deseronto. Dorchester.	40 44 43 40 43	1.67 1.67 1.80 1.67 1.67	50 60 50 50 50	3.4 3.8 2.6 2.6 2.8	1.7 1.3 1.3 1.4	1.0 0.8 0.7 0.8	1.4 1.4 1.1 1.0 1.1	2.29 2.56 1.75 1.75 1.89	5.04 5.08 3.87 3.82 4.14	6.84 7.60 5.31 5.08 5.58
Drayton Dresden Drumbo Dryden Dublin	44 45 35 43	1.67 1.67 	50 50 50 60 50	3.4 3.0 2.8 4.5 2.8	1.7 1.5 1.4 	1.0 0.9 0.8 	1.4 1.2 1.1 1.5	2.29 2.02 1.89 2.97 1.89	5.04 4.45 4.14 5.67 4.14	6.84 6.07 5.58 8.37 5.58
Dundalk Dundas Dunnville Durham Dutton	44 40 45 42 47	1.67 1.78 1.67	50 60 60 60 50	3.0 2.8 2.6 2.7 2.8	1.5	0.9	1.2 1.1 1.5 1.1	2.02 1.91 1.94 1.85 1.89	4.45 3.89 4.64 3.83 4.14	6.07 5.87 7.34 5.81 5.58
East York Twp Eganville †Elk Lake Townsite Elmira Elmvale.	37 42 42 45 40	1.67 1.67 1.67 1.67 1.67	50 60 A 50 50	2.6 4.3 A 3.0 2.6	1.3 1.5 1.3	0.8 0.8 0.8	1.1 1.1 A 1.2 1.1	1.75 2.72 2.30 2.02 1.75	3.87 4.70 4.60 4.41 3.87	5.31 6.68 6.60 5.85 5.31
Elmwood. Elora. Embro. †Englehart Erieau.	39 44 44 42 45	1.67 1.67 1.67 1.67	50 60 60 60 50	2.6 3.2 3.3 4.5 2.8	1.3	0.7	1.0 1.4 1.1 1.5 0.8	1.75 2.23 2.18 2.97 1.89	3.82 4.75 4.16 5.67 4.14	5.08 7.27 6.14 8.37 5.58
Erie Beach Erin Essex Etobicoke Twp. (including Thistletown)	45 40 44 37	1.67 1.67 1.78	50 50 60	4.0 3.0 2.9	2.0 1.5	0.8	1.1 1.2 1.2	2.70 2.02 2.00	5.89 4.41 4.16	7.87 5.85 6.32
Exeter	45	1.67 1.67	60 60	3.0			1.3	1.93 2.09	4.27 4.43	6.61 6.77

For explanatory notes and water-heating schedules see pages 264 to 267.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1959

are subject to 10% prompt payment discount monthly charge

monini	y charge													
	COMMERCIAL SERVICE Demand rate per 100 watts								Pow	ER SEI	RVICE			
minir Ene kw		cents per	fe	monthly or use of of dema		rate per kw		fo	rate pe or use o w of de	f		f	monthly or use of of dema	
First 100 hours	Next 100 hours	All addi- tional bours	100 hours	200 hours	300 hours	Demand rate per	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
\$ 3.0 2.5 2.0 °2.7 °2.7	¢ 0.8 0.8	1.0 1.0 1.1 0.5 0.5	\$ 3.15 2.70 2.25 2.88 2.88	\$ 4.05 3.60 3.24 3.60 3.60	\$ 4.95 4.50 4.23 4.05 4.05	\$ 1.35 1.35 1.20 1.00 1.00	¢ 2.8 2.5 1.6	¢ 2.2 2.0	1.8 1.6 1.0	¢ 0.5 0.5	¢ 0.33 0.33 0.30 0.33 0.33	\$ 3.28 3.06 2.25 2.88 2.70	\$ 3.58 3.36 2.52 3.33 3.15	\$ 3.88 3.65 2.79 3.63 3.45
3.8 °2.8 °2.1 2.6 °3.1	0.8 0.8 0.8	1.0 0.5 0.5 0.9 0.5	3.87 2.97 2.34 2.79 3.24	4.77 3.69 3.06 3.60 3.96	5.67 4.14 3.51 4.41 4.41	1.35 1.00 1.00 1.20 1.00	2.0 1.6	2.3 1.6 2.4	1.3	0.5 0.5 0.5	0.33 0.33 0.33 0.30 0.33	2.70 2.97 2.34 2.25 3.06	3.00 3.42 2.79 2.52 3.51	3.29 3.72 3.09 2.79 3.81
2.9 3.4 °2.4 °2.2 °2.6	0.8 0.8 0.8 0.8	0.5 1.4 0.5 0.5 0.5	3.06 3.51 2.61 2.43 2.79	3.78 4.77 3.33 3.15 3.51	4.23 6.03 3.78 3.60 3.96	1.00 1.35 1.00 1.00 1.00	3.1	2.2 1.8 1.6 2.1	2.0	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33	2.88 3.51 2.52 2.34 2.79	3.33 3.81 2.97 2.79 3.24	3.63 4.10 3.27 3.09 3.54
°2.9 °2.8 °2.7 3.8 °2.7	0.8 0.8 0.8 	0.5 0.5 0.5 2.0 0.5	3.06 2.97 2.88 3.87 2.88	3.78 3.69 3.60 5.67 3.60	4.23 4.14 4.05 7.47 4.05	1.00 1.00 1.00 1.35 1.00	2.8	2.2 2.3 2.2 2.6	1.8	0.5 0.5 0.5 	0.33 0.33 0.33 0.33 0.33	2.88 2.97 2.88 3.28 3.24	3.33 3.42 3.33 3.58 3.69	3.63 3.72 3.63 3.88 3.99
°2.6 2.3 2.2 2.4 °2.5	0.8	0.5 1.0 1.5 1.0 0.5	2.79 2.52 2.43 2.61 2.70	3.51 3.42 3.78 3.51 3.42	3.96 4.32 5.13 4.41 3.87	1.00 1.20 1.35 1.35 1.00	1.6 2.3 2.2	1.9	1.0 1.5 1.4	0.5	0.33 0.30 0.33 0.33 0.33	2.61 2.25 2.92 2.83 2.70	3.06 2.52 3.22 3.13 3.15	3.36 2.79 3.52 3.43 3.45
°2.0 3.8 •2.8 °2.1	0.8 0.8 0.8	0.5 1.0 \$\triangle\$ 0.5 0.5	2.25 3.87 3.50 2.97 2.34	2.97 4.77 4.50 3.69 3.06	3.42 5.67 5.50 4.14 3.51	1.00 1.35 1.00 1.00	2.5	1.3 1.9 1.6	1.6	0.5 0.5 0.5	0.33 0.33 0.33 0.33	2.07 3.06 3.50 2.61 2.34	2.52 3.36 4.50 3.06 2.79	2.82 3.65 5.50 3.36 3.09
°2.3 2.8 2.7 4.0 °2.8	0.8	0.5 1.4 0.7 1.5 0.5	2.52 2.97 2.88 4.05 2.97	3.24 4.23 3.51 5.40 3.69	3.69 5.49 4.14 6.75 4.14	1.00 1.35 1.35 1.35 1.00	2.0 3.1 3.1	1.8	1.3 2.0 2.0	0.5	0.33 0.33 0.33 0.33 0.33	2.52 2.70 3.51 3.51 3.15	2.97 3.00 3.81 3.81 3.60	3.27 3.29 4.10 4.10 3.90
°3.5 °2.5 2.4	0.8	0.5 0.5 1.0	3.60 2.70 2.61	4.32 3.42 3.51	4.77 3.87 4.41 3.87	1.00 1.00 1.35	2.0	2.6	1.3	0.5	0.33 0.33 0.33	3.24 2.43 2.70 2.25	3.69 2.88 3.00	3.99 3.18 3.29 2.79
°2.2 2.6		0.8	2.43	3.15	4.23		2.1		1.4		0.30	2.65	2.92	3.19

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a r	ninimum
					Doм	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	■House heating per kwh	of kwh supplied first block		Rate	per kwh for		Ne	t monthly for	bill
	Flat-rat per or sche	■House he	Number of in fire	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
FergusFinch FleshertonFonthill. Forest.	37 41	1.67 1.67 1.67 1.67	No. 60 50 50 60 50	¢ 3.3 2.4 2.0 3.0 2.6	¢ 1.2 1.0 1.3	0.7 0.7 0.8	¢ 1.3 1.0 1.0 1.3 1.1	\$ 2.25 1.62 1.35 2.09 1.75	\$ 4.59 3.55 3.01 4.43 3.87	\$ 6.93 4.81 4.27 6.77 5.31
Forest Hill Fort William Frankford Galt Georgetown Glen Williams	36 40	1.67 1.67 1.67 1.67 1.67 1.67	50 60 50 60 50 50	3.0 2.0 2.6 3.0 3.0 3.2	1.5 1.3 1.5 1.6	0.8 0.8 0.9 0.9	1.2 0.8 1.1 1.1 1.2 1.3	2.02 1.37 1.75 2.02 2.02 2.16	4.41 2.81 3.87 4.00 4.45 4.72	5.85 4.25 5.31 5.98 6.07 6.34
†Geraldton Glencoe Goderich †Gogama Grand Bend	45 45 45 45 45	1.67 1.67 1.67 1.67 1.78	50 50 50 50 60	4.0 2.4 3.0 7.0 4.4	2.0 1.2 1.5 3.5	1.2 0.7 0.9	1.6 1.0 1.2 1.6 1.5	2.70 1.62 2.02 4.72 2.92	5.94 3.55 4.45 10.17 5.62	8.10 4.81 6.07 13.05 8.32
Grand Valley	50 50 40 43 34	1.67 1.67 1.67	60 60 50 60 50	3.0 3.9 2.0 2.5 3.0	1.0	0.7	1.2 1.4 1.0 1.1 1.2	2.05 2.61 1.35 1.75 2.02	4.21 5.13 3.01 3.73 4.45	6.37 7.65 4.27 5.71 6.07
Hagersville †Haileybury Hamilton Hanover Harriston	41 42 43 38 39	1.67 1.67 1.67 1.67 1.67	60 60 60 60 50	2.8 3.9 2.6 2.2 3.0	1.5	0.9	1.1 1.2 1.1 1.0 1.2	1.91 2.54 1.80 1.55 2.02	3.89 4.70 3.78 3.35 4.45	5.87 6.86 5.76 5.15 6.07
Harrow Hastings Havelock Hawkesbury Hearst	43 38 40 36 60	1.67 1.67 1.67	50 45 50 50	3.0 4.2 3.0 3.4 4.6	1.5 1.5 1.7 2.3	0.9 0.9 1.0 1.3	1.2 1.0 1.2 1.4 1.6	2.02 2.20 2.02 2.29 3.10	4.45 4.00 4.45 5.04 6.79	6.07 5.80 6.07 6.84 9.13
Hensall †Hepworth Hespeler Highgate Holstein	45 45 42 47 41	1.67 1.67 1.67	60 50 60 60	3.2 3.6 3.2 3.2 3.0	1.8	1.1	1.0 1.5 1.1 0.9 1.0	2.09 2.43 2.12 2.05 1.98	3.89 5.35 4.10 3.67 3.78	5.69 7.33 6.08 5.29 5.58
†Hornepayne		1.67 1.67 	60 50 60 60	8.0 4.4 2.4 8.0 3.4	2.2	1.2	2.0 1.6 1.2 2.0 1.3	5.04 2.97 1.73 5.04 2.30	8.64 6.48 3.89 8.64 4.64	12.24 8.64 6.05 12.24 6.98

[†]Local system

For explanatory notes and water-heating schedules see pages 264 to 267.

^(†) Six months' operation at these rates—now served as part of Dryden R.O.A.

Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1959

are subject to 10% prompt payment discount monthly charge

monini	y charge														
		MERCIA	AL SERV	ICE					Pow	ER SE	RVICE				
mini Ene	emand rater 100 wa 5.0 cents mum 50 ergy rate wh for use kw of de	cents per	fe	monthly or use of of dema	- 1	rate per kw		fe	rate por use o aw of de	f		f	Net monthly bill for use of 1 kw of demand		
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand rate per	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	
2.8 °2.1 °1.6 2.5 °2.5	0.8 0.8 0.8	1.1 0.5 0.5 1.2 0.5	\$ 2.97 2.34 1.89 2.70 2.70	\$ 3.96 3.06 2.61 3.78 3.42	\$ 4.95 3.51 3.06 4.86 3.87	\$ 1.35 1.00 1.00 1.35 1.00	¢ 2.2 2.5	1.6 1.0 2.0	¢ 1.4 1.6	0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	\$ 2.83 2.34 1.80 3.06 2.70	\$ 3.13 2.79 2.25 3.36 3.15	\$ 3.43 3.09 2.55 3.65 3.45	
°1.8 1.9 °1.8 2.5 °2.4 °2.6	0.8 0.8 0.8 0.8	0.5 0.4 0.5 1.0 0.5 0.5	2.07 2.16 2.07 2.70 2.61 2.79	2.79 2.52 2.79 3.60 3.33 3.51	3.24 2.88 3.24 4.50 3.78 3.96	1.00 1.00 1.00 1.20 1.00 1.00	1.4 1.6	1.3 1.1 1.7 2.0	1.0	0.5 0.5 0.5 0.5	0.33 0.25 0.33 0.30 0.33 0.33	2.07 1.93 1.89 2.25 2.43 2.70	2.52 2.16 2.34 2.52 2.88 3.15	2.82 2.38 2.64 2.79 3.18 3.45	
°3.8 °2.4 °2.9 5.8 3.9	0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 1.3	3.87 2.61 3.06 5.67 3.96	4.59 3.33 3.78 6.39 5.13	5.04 3.78 4,23 6.84 6.30	1.00 1.00 1.00 1.00 1.35	3.1	2.9 1.9 2.4 5.1	2.0	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33	3.51 2.61 3.06 5.49 3.51	3.96 3.06 3.51 5.94 3.81	4.26 3.36 3.81 6.24 4.10	
2.5 3.4 °1.6 2.0 °2.2	0.8	1.2 1.3 0.5 1.0 0.5	2.70 3.51 1.89 2.25 2.43	3.78 4.68 2.61 3.15 3.15	4.86 5.85 3.06 4.05 3.60	1.20 1.35 1.00 1.20 1.00	2.1 2.6 1.7	1.1	1.4 1.7 1.2	0.5	0.30 0.33 0.33 0.30 0.33	2.65 3.15 1.89 2.38 2.25	2.92 3.45 2.34 2.65 2.70	3.19 3.74 2.64 2.92 3.00	
2.3 3.4 d1.9 1.7 °2.8	0.8	0.9 1.2 0.7 1.0 0.5	2.52 3.51 2.16 1.98 2.97	3.33 4.59 2.79 2.88 3.69	4.14 5.67 3.42 3.78 4.14	1.20 1.35 1.00 1.00 1.00	1.7 2.0 1.4 1.5	2.1	1.2 1.3 0.9 0.9	0.5	0.30 0.33 0.40 0.30 0.33	2.38 2.70 1.93 1.98 2.79	2.65 3.00 2.29 2.25 3.24	2.92 3.29 2.65 2.52 3.54	
°2.7 3.6 °2.5 °3.2 °3.9	0.8 0.8 0.8 0.8	0.5 1.0 0.5 0.5 0.5	2.88 3.69 2.70 3.33 3.96	3.60 4.59 3.42 4.05 4.68	4.05 5.49 3.87 4.50 5.13	1.00 1.35 1.00 1.00 1.00	2.5	2.0 1.7 1.7 3.2	1.6	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.70 3.06 2.43 2.43 3.78	3.15 3.36 2.88 2.88 4.23	3.45 3.65 3.18 3.18 4.53	
2.7 °3.2 2.6 2.8 2.5	0.8	0.9 0.5 0.9 0.7 0.8	2.88 3.33 2.79 2.97 2.70	3.69 4.05 3.60 3.60 3.42	4.50 4.50 4.41 4.23 4.14	1.20 1.00 1.20 1.35 1.35	2.1 1.6 2.6 3.5	2.4	1.4 1.0 1.7 2.3	0.5	0.30 0.33 0.33 0.33	2.65 3.06 2.25 3.15 3.82	2.92 3.51 2.55 3.45 4.12	3.19 3.81 2.84 3.74 4.42	
7.5 °3.9 2.2 7.5 2.8	0.8	2.0 0.5 1.1 2.0 0.8	7.20 3.96 2.43 7.20 2.97	9.00 4.68 3.42 9.00 3.69	10.80 5.13 4.41 10.80 4.41	1.35 1.00 1.20 1.35 1.20	4.9 1.6 4.9 1.9	3.4	3.3 1.0 3.3 1.3	0.5	0.33 0.33 0.30 0.33 0.30	4.90 3.96 2.25 4.90 2.52	5.20 4.41 2.52 5.20 2.79	5.50 4.71 2.79 5.50 3.06	

Municipal Electrical RATES AND TYPICAL BILLS

in effect

Rates are quoted on a monthly basis and and a minimum

						110103	are quote		_	ninimun
					Doм	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	■House heating per kwh	Number of kwh supplied in first block			per kwh		Ne	t monthly for	bill
	Flat-rat	House he	Number of in fir	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Iroquois	¢ No. 43 44 45 35 45	 1.67 	No. 60 60 50 50 b40	¢ 2.8 2.8 4.4 3.0 3.5	2.2 1.5	1.2 0.9	1.2 0.9 1.6 1.2 ‡/1.6 (0.75	\$ 1.94 1.84 2.97 2.02 2.63	\$ 4.10 3.46 6.48 4.45 4.90	\$ 6.26 5.08 8.64 6.07 6.25
Kemptville	40 45 42	1.67 1.67 1.67	50 50 b40 60	2.6 2.4 3.5	1.3	0.7	1.0 1.0 1.6 0.75 0.9	1.75 1.62 2.63	3.82 3.55 4.90 2.92	5.08 4.81 6.25 4.54
Kingsville Kirkfield †Kirkland Lake (including Swastika)	40 45 42	1.67	50 50	5.0	1.2	0.7	1.0	1.62 2.79 2.30	3.55 4.95 4.60	7.11 6.60
KitchenerLakefieldLambeth	39 34 43	1.67 1.67 1.67	60 55 60	2.6 2.8 3.5			1.3 1.0 1.3	1.87 1.79 2.36	4.21 3.59 4.70	6.55 5.39 7.04
Lanark Lancaster Larder Lake Twp Latchford Leamington	39 39 43 44 41	1.67 1.67 1.67	50 50 60 50 50	2.2 2.4 3.5 3.0 2.8	1.1 1.2 1.5 1.4	0.7 0.7 0.8 0.8	1.0 1.0 1.1 1.2 1.1	1.48 1.62 2.29 2.02 1.89	3.28 3.55 4.27 4.41 4.14	4.54 4.81 6.25 5.85 5.58
LindsayListowelLondonLondon TwpLong Branch	41 41 44 39 40	1.67 1.67 1.67	50 50 60 50	2.6 2.8 2.8 3.2 2.4	1.3 1.4 1.6	0.8	1.1 1.1 1.2 1.4 1.2	1.75 1.89 1.94 2.16 1.73	3.87 4.14 4.10 4.77 3.89	5.31 5.58 6.26 6.57 6.05
L'Orignal Lucan Lucknow Lynden Madoc	40 45 45 43 40	1.67 1.67 1.67 1.67	50 50 55 50 50	4.2 3.2 2.7 3.0 2.4	2.1 1.6 1.5 1.2	1.2 1.0 0.8 0.7	1.6 1.4 1.0 1.2 1.0	2.83 2.16 1.75 2.02 1.62	6.21 4.77 3.55 4.41 3.55	8.37 6.57 5.35 5.85 4.81
Magnetawan Markdale Markham Marmora Martintown	45 45 44 43 38	1.67 1.67 1.67 1.67 1.67	50 60 50 60 50	4.2 2.5 3.0 3.6 2.8	2.1 1.5 	1.2 0.8 	1.6 1.0 1.2 1.0	2.83 1.71 2.02 2.30 1.89	6.21 3.51 4.41 4.10 4.14	8.37 5.31 5.85 5.90 5.58
Massey †Matachewan Twp †Matheson	45 45 45	1.67 1.67	50 50 b40	5.0 4.5 3.5	2.5	1.4	1.6 1.0 ‡§1.6 \(0.75\)	3.37 2.47 2.63	7.38 4.27 4.90	9.90 6.07 6.25
†Mattawa	45 43	1.67 1.67	50 50	5.2 2.6	2.6	0.8	1.6	3.51 1.75	7.74 3.87	10.62 5.31

[†]Local system ▲Special rates

For explanatory notes and water-heating schedules see pages 264 to 267.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1959

are subject to 10% prompt payment discount monthly charge

	, onar ge													
	COMMERCIAL SERVICE Demand rate per 100 watts								Pow	ER SE	RVICE			
minin Ene	emand ra r 100 war 5.0 cents, num 50 ergy rate h for use kw of de	cents per of	fe	monthly or use of of dema		Demand rate per kw		f	rate pe or use o w of de	f			monthly for use o w of dem	f
First 100 hours	Next 100 hours	All addi- tional hours.	100 hours	200 hours	300 hours	Demand	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
2.3 2.3 2.3 °3.9 °2.7 3.5	¢ 0.8 0.8	1.0 0.6 0.5 0.5	\$ 2.52 2.52 3.96 2.88 3.60	\$ 3.42 3.06 4.68 3.60 4.50	\$ 4.32 3.60 5.13 4.05 5.40	\$ 1.35 1.20 1.00 1.00 1.35	¢ 2.0 2.1 2.8	\$ 3.4 2.0	¢ 1.3 1.4 1.8	¢ 0.5 0.5	¢ 0.33 0.30 0.33 0.33	\$ 2.70 2.65 3.96 2.70 3.28	\$ 3.00 2.92 4.41 3.15 3.58	\$ 3,29 3,19 4,71 3,45 3,88
°2.3 °2.4 3.5	0.8	0.5 0.5 1.0	2.52 2.61 3.60	3.24 3.33 4.50	3.69 3.78 5.40	1.00 1.00 1.35	2.8	1.7	1.8	0.5	0.33 0.33 0.33	2.43 2.61 3.28	2.88 3.06 3.58	3.18 3.36 3.88
1.5 °2.2	0.8	0.9 0.5	1.80 2.43	2.61 3.15	3.42 3.60	1.20 1.00	1.4	1.7	0.9	0.5	0.30	2.11 2.43	2.38	2.65 3.18
4.5		1.0	4.50	5.40	6.30	1.35	4.1		2.7		0.33	4.27	4.57	4.87
2.3 2.4 3.1	• • • • • • • • • • • • • • • • • • • •	1.0 0.8 1.1	3.50 2.52 2.61 3.24	4.50 3.42 3.33 4.23	5.50 4.32 4.05 5.22	1.20 1.20 1.35	2.1 1.7 4.1		1.4 1.2 2.7		0.30 0.30 0.33	3.50 2.65 2.38 4.27	4.50 2.92 2.65 4.57	5.50 3.19 2.92 4.87
°1.9 °2.0 3.0 °2.5 °2.5	0.8 0.8 0.8 0.8	0.5 0.5 1.0 0.5 0.5	2.16 2.25 3.15 2.70 2.70	2.88 2.97 4.05 3.42 3.42	3.33 3.42 4.95 3.87 3.87	1.00 1.00 1.35 1.00 1.00	3.1	1.4 1.5 1.7 2.0	2.0	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33	2.16 2.25 3.51 2.43 2.70	2.61 2.70 3.81 2.88 3.15	2.91 3.00 4.10 3.18 3.45
°2.2 °2.4 2.2 °2.7 °1.9	0.8 0.8 0.8	0.5 0.5 0.6 0.5	2.43 2.61 2.43 2.88 2.16	3.15 3.33 2.97 3.60 3.15	3.60 3.78 3.51 4.05 4.14	1.00 1.00 1.20 1.00 1.20	1.4	1.5 1.8 1.9	0.9	0.5 0.5 0.5	0.33 0.33 0.30 0.33 0.30	2.25 2.52 2.11 2.61 2.38	2.70 2.97 2.38 3.06 2.65	3.00 3.27 2.65 3.36 2.92
°2.6 °2.7 2.2 °2.6 °2.3	0.8 0.8 0.8 0.8	0.5 0.5 0.8 0.5 0.5	2.79 2.88 2.43 2.79 2.52	3.51 3.60 3.15 3.51 3.24	3.96 4.05 3.87 3.96 3.69	1.00 1.00 1.35 1.00 1.00	2.8	1.8 2.0 2.0 1.8	1.8	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.52 2.70 3.28 2.70 2.52	2.97 3.15 3.58 3.15 2.97	3.27 3.45 3.88 3.45 3.27
°3.7 2.0 °2.4 3.2 °2.3	0.8	0.5 1.0 0.5 0.9 0.5	3.78 2.25 2.61 3.33 2.52	4.50 3.15 3.33 4.14 3.24	4.95 4.05 3.78 4.95 3.69	1.00 1.20 1.00 1.35 1.00	1.9	2.8 1.9 	1.3	0.5 0.5 	0.33 0.30 0.33 0.33 0.33	3.42 2.52 2.61 2.92 2.43	3.87 2.79 3.06 3.22 2.88	4.17 3.06 3.36 3.52 3.18
°4.4 3.5 3.5	0.8	0.5 1.0 1.0	4.41 3.60 3.60	5.13 4.50 4.50	5.58 5.40 5.40	1.00 1.35 1.35	2.8 2.8	3.1	1.8	0.5	0.33 0.33 0.33	3.69 3.28 3.28	4.14 3.58 3.58	4.44 3.88 3.88
5.2 °2.6	0.8	0.5	5.13 2.79	5.85 3.51	6.30	1.00		3.2		0.5	0.33	3.78 2.79	4.23 3.24	4.53 3.54

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a	ninimun
					Doм	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block		Rate	per kwh for		Ne	t monthly for	bill
	Flat-rat per or scho	House he	Number of in firs	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
McGarry Meaford Merlin Merrickville Merritton	¢ No. 40 46 44 38 40	1.67 1.67	No. 60 60 60 50 60	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	¢	¢	¢ 1.1 1.0 1.0 1.1 1.3	\$ 2.29 1.76 2.03 1.89 2.20	\$ 4.27 3.56 3.83 4.14 4.54	\$ 6.25 5.36 5.63 5.58 6.88
Midland Mildmay Millbrook Milton Milverton	39 40 41 43 45	1.67 1.67 1.67 1.67 1.67	50 60 50 50 50	1.8 2.5 3.0 3.2 3.4	0.9 1.5 1.6 1.7	0.7 0.9 1.0 1.0	1.0 1.0 1.2 1.4 1.4	1.21 1.71 2.02 2.16 2.29	2.74 3.51 4.45 4.77 5.04	4.00 5.31 6.07 6.57 6.84
Mimico. Mitchell. Moorefield. Morrisburg. Mount Brydges.	37 40 43 40 41	1.67 1.67 1.67 1.67 1.67	50 50 50 50 50	2.4 3.4 2.6 2.4 3.4	1.2 1.7 1.3 1.2 1.7	0.7 1.0 0.7 0.7 1.0	1.0 1.4 1.0 1.0 1.4	1.62 2.29 1.75 1.62 2.29	3.55 5.04 3.82 3.55 5.04	4.81 6.84 5.08 4.81 6.84
Mount Forest Napanee Neustadt Newboro Newburgh	39 38 37 38 40	1.67 1.67 1.67 1.67 1.67	50 50 50 50 60	2.6 2.6 2.0 3.2 4.3	1.3 1.3 1.0 1.6	0.8 0.8 0.7 1.0	1.1 1.1 1.0 1.4 1.2	1.75 1.75 1.35 2.16 2.75	3.87 3.87 3.01 4.77 4.91	5.31 5.31 4.27 6.57 7.07
Newbury Newcastle New Hamburg †New Liskeard Newmarket	50 43 39 42 40	1.67 1.70 1.67	60 60 50 50 60	4.0 3.0 3.0 3.2 2.5	1.5 1.6	0.9	1.0 0.9 1.2 1.4 1.0	2.52 1.94 2.02 2.16 1.71	4.32 3.56 4.45 4.77 3.51	6.12 5.18 6.07 6.57 5.31
New Toronto Niagara Niagara Falls Nipigon Twp North Bay	37 42 40 30 42	1.67 1.67 1.67 1.67 1.67	60 60 50 50 60	2.6 3.0 3.0 2.2 2.5	1.4 1.1	0.7	1.2 1.4 1.0 1.0	1.84 2.12 1.98 1.48 1.78	4.00 4.64 4.32 3.28 3.94	6.16 7.16 6.12 4.54 6.10
North York Twp Norwich Norwood Oakville Oil Springs	37 46 42 41 45	1.67 1.67 1.67 1.79	60 60 50 60 50	2.7 3.4 2.6 3.0 2.8	1.3	0.8	1.3 1.2 1.1 1.4 1.1	1.93 2.27 1.75 2.12 1.89	4.27 4.43 3.87 4.64 4.14	6.61 6.59 5.31 7.16 5.58
Omemee	44 45 36 38 34	1.67 1.67 1.67 1.67	60 50 60 50 50	3.3 3.0 2.3 3.0 2.2	1.5 1.5 1.1	0.9 0.8 0.7	1.0 1.2 0.9 1.2 1.0	2.14 2.02 1.57 2.02 1.48	3.94 4.45 3.19 4.41 3.28	5.74 6.07 4.81 5.85 4.54

[†]Local system

For explanatory notes and water-heating schedules see pages 264 to 267.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1959

are subject to 10% prompt payment discount monthly charge

monthly	charge	2												
	Сом	MERCIA	L SERV	ICE					Pow	ER SEI	RVICE			
per 5 minin Ene kwl	emand ra 100 was 5.0 cents, num 50 c rgy rate h for use kw of de	cents per of	f	monthly or use of of dema	- 1	Demand rate per kw		fo	rate pe or use of w of de	f		fe	monthly or use of of dema	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
\$ 3.0 2.2 2.6 2.2 2.7	¢	1.0 0.8 0.7 0.5	\$ 3.15 2.43 2.79 2.43 2.88	\$ 4.05 3.15 3.42 3.15 3.87	\$ 4.95 3.87 4.05 3.60 4.86	\$ 1.35 1.20 1.35 1.00 1.20	¢ 3.1 2.1 2.8 1.9	¢	¢ 2.0 1.4 1.8 1.3	¢	¢ 0.33 0.30 0.33 0.33 0.30	\$ 3.51 2.65 3.28 1.89 2.52	\$ 3.81 2.92 3.58 2.34 2.79	\$ 4.10 3.19 3.88 2.64 3.06
°1.5 2.0 °3.0 °2.6 °2.9	0.8 0.8 0.8 0.8	0.5 0.9 0.5 0.5 0.5	1.80 2.25 3.15 2.79 3.06	2.52 3.06 3.87 3.51 3.78	2.97 3.87 4.32 3.96 4.23	1.00 1.20 1.00 1.00 1.00	1.9	2.2 2.1 2.1	1.3	0.5 0.5 0.5 0.5	0.33 0.30 0.33 0.33 0.33	1.62 2.52 2.88 2.79 2.79	2.07 2.79 3.33 3.24 3.24	2.37 3.06 3.63 3.54 3.54
°2.2 °2.9 °2.4 °1.9 °3.0	0.8 0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.5	2.43 3.06 2.61 2.16 3.15	3.15 3.78 3.33 2.88 3.87	3.60 4.23 3.78 3.33 4.32	1.00 1.00 1.00 1.00 1.00	• • •	1.5 2.1 1.9 1.4 2.3		0.5 0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33	2.25 2.79 2.61 2.16 2.97	2.70 3.24 3.06 2.61 3.42	3.00 3.54 3.36 2.91 3.72
°2.3 °2.2 °1.6 °2.4 3.8	0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 1.2	2.52 2.43 1.89 2.61 3.87	3.24 3.15 2.61 3.33 4.95	3.69 3.60 3.06 3.78 6.03	1.00 1.00 1.00 1.00 1.35	2.5	1.8 1.3 1.0 1.6	1.6	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.52 2.07 1.80 2.34 3.06	2.97 2.52 2.25 2.79 3.36	3.27 2.82 2.55 3.09 3.65
3.5 2.5 °2.6 °2.9 2.2	0.8	0.9 0.8 0.5 0.5 1.0	3.60 2.70 2.79 3.06 2.43	4.41 3.42 3.51 3.78 3.33	5.22 4.14 3.96 4.23 4.23	1.35 1.35 1.00 1.00 1.20	3.5 2.0 2.1	1.9	2.3 1.3 1.4	0.5	0.33 0.33 0.33 0.33 0.30	3.82 2.70 2.61 3.06 2.65	4.12 3.00 3.06 3.51 2.92	4.42 3.29 3.36 3.81 3.19
°2.1 2.5 °2.2 °1.9 2.0	0.8 0.8 0.8	0.5 1.2 0.5 0.5 0.9	2.34 2.70 2.43 2.16 2.25	3.06 3.78 3.15 2.88 3.06	3.51 4.86 3.60 3.33 3.87	1.00 1.20 1.00 1.00 1.20	2.1	1.4 1.5 1.2	1.4	0.5 0.5 0.5	0.33 0.30 0.33 0.33 0.30	2.16 2.65 2.25 1.98 2.65	2.61 2.92 2.70 2.43 2.92	2.91 3.19 3.00 2.73 3.19
2.2 3.0 °2.1 2.5 °2.7	0.8	1.1 1.0 0.5 1.3 0.5	2.43 3.15 2.34 2.70 2.88	3.42 4.05 3.06 3.87 3.60	4.41 4.95 3.51 5.04 4.05	1.20 1.35 1.00 1.20 1.00	1.7 2.5 1.7	1.6	1.2	0.5	0.30 0.33 0.33 0.30 0.33	2.38 3.06 2.34 2.38 2.88	2.65 3.36 2.79 2.65 3.33	2.92 3.65 3.09 2.92 3.63
2.8 °2.3 1.8 °2.5 °1.8	0.8 0.8 0.8	0.8 0.5 0.8 0.5 0.5	2.97 2.52 2.07 2.70 2.07	3.69 3.24 2.79 3.42 2.79	4.41 3.69 3.51 3.87 3.24	1.35 1.00 1.00 1.00 1.00	2.8	1.4	0.9	0.5 0.5 0.5	0.33 0.33 0.30 0.33 0.33	3.28 2.16 1.93 2.43 1.98	3.58 2.61 2.20 2.88 2.43	3.88 2.91 2.47 3.18 2.73

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and

						Kates	are quoi	ea on a		basis and minimum
					Dox	MESTIC SE	ERVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block		Rate	per kwh for		Ne	et monthly for	y bill
	Flat-ra pe or sch	■House he	Number of in fir	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Ottomo (includio Est	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Ottawa (including East- view and Rockcliffe Park) Otterville Owen Sound Paisley Palmerston	32 43 38 45 44	1.67 1.67 1.67	a 500 \600 60 60 60 60	*\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			*0.5 1.0 1.1 1.0 1.0	1.74 1.98 1.69 2.25 1.76	3.02 3.78 3.67 4.05 3.56	3.92 5.58 5.65 5.85 5.36
Paris. Parkhill. Parry Sound. Penetanguishene. Perth.	42 44 42 37 37	1.78 1.67	60 50 60 50 50	2.8 3.2 2.8 2.2 2.4	1.6 1.1 1.2	0.9 0.7 0.7	1.3 1.3 1.2 1.0 1.0	1.98 2.16 1.94 1.48 1.62	4.32 4.72 4.10 3.28 3.55	6.66 6.34 6.26 4.54 4.81
Peterborough Petrolia. Pickering †Pickle Lake Landing	40 45 37	1.67 1.67 1.67	60 50 50	2.6 3.2 4.0	1.6 2.0	1.0	1.3 1.4 1.6	1.87 2.16 2.70	4.21 4.77 5.89	6.55 6.57 7.87
Townsite	45	1.67 1.67	50 50	4.4	2.2 1.3	1.2 0.8	1.6 1.1	2.97 1.75	6.48 3.87	8.64 5.31
Plattsville Point Edward Port Arthur Port Burwell †Port Carling	38 34 45 41	1.67 1.67 	50 50 60 50 50	2.8 2.2 2.0 4.4 4.4	1.4 1.1 2.2 2.2	0.8 0.7 1.3 1.2	1.1 1.0 0.8 1.6 1.6	1.89 1.48 1.37 2.97 2.97	4.14 3.28 2.81 6.52 6.48	5.58 4.54 4.25 8.86 8.64
Port Colborne Port Credit Port Dalhousie Port Dover Port Elgin	38 40 44 45	1.67 1.67 1.78 1.67 1.80	60 60 50 60	2.8 2.7 3.8 2.4 3.5	1.9	1.1	1.2 1.3 1.5 1.2 1.3	1.94 1.93 2.56 1.73 2.36	4.10 4.27 5.62 3.89 4.70	6.26 6.61 7.60 6.05 7.04
Port Hope Port McNicoll. Port Perry Port Rowan. Port Stanley	40 39 41 45 45	1.67 1.67 1.67 1.78 1.67	50 50 50 50 50	3.0 2.6 2.6 2.8 3.2	1.5 1.3 1.3 1.4 1.6	0.9 0.8 0.7 0.8 1.0	1.2 1.1 1.0 1.1 1.4	2.02 1.75 1.75 1.89 2.16	4.45 3.87 3.82 4.14 4.77	6.00 5.31 5.08 5.58 6.57
†Powassan. Prescott. Preston. Priceville. Princeton.	42 37 37 47 48	1.67 1.67 1.67	50 50 50 50 60	3.6 2.2 3.0 4.0 3.0	1.8 1.1 1.5 2.0	1.0 0.7 0.9 1.2	1.4 1.0 1.2 1.6 1.0	2.43 1.48 2.02 2.70 1.98	5.31 3.28 4.45 5.94 3.78	7.11 4.54 6.07 8.10 5.58
Queenston	57 45 32 36	1.67 1.67 1.67 1.67	60 50 50 50 50	2.8 6.8 4.4 2.4 2.6	3.4 2.2 1.2 1.3	1.2 0.7 0.7	1.3 1.6 1.6 1.0 1.0	1.98 4.59 2.97 1.62 1.75	4.32 9.90 6.48 3.55 3.82	6.66 12.78 8.64 4.81 5.08

For explanatory notes and water-heating schedules see pages 264 to 267.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1959

are subject to 10% prompt payment discount monthly charge

	Сом	MERCIA	AL SERV	ICE					Pow	ER SE	RVICE			
minir Ene	emand ra r 100 was 5.0 cents, mum 50 ergy rate h for use kw of de	cents per of	f	monthly or use of of dema		Demand rate per kw		f	rate por use o	f		f	monthly or use of of dema	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
2.0 2.5 °2.0 3.0 2.2	0.8	0.5 0.8 0.5 1.0 0.8	2.25 2.70 2.25 3.15 2.43	2.97 3.42 2.97 4.05 3.15	3.42 4.14 3.42 4.95 3.87	1.00 1.35 1.00 1.35 1.20	2.0 1.5 2.6 1.6	1.4	1.3 1.1 1.7 1.0	0.5	0.33 0.33 0.30 0.33 0.30	2.16 2.70 2.07 3.15 2.25	2.61 3.00 2.34 3.45 2.52	2.91 3.29 2.61 3.74 2.79
2.3 °2.9 2.3 °1.6 °1.7	0.8 0.8 0.8 0.8	0.8 0.5 1.2 0.5 0.5	2.52 3.06 2.52 1.89 1.98	3.24 3.78 3.60 2.61 2.70	3.96 4.23 4.68 3.06 3.15	1.00 1.00 1.20 1.00 1.00	1.5	2.2 1.0 0.9	1.1	0.5 0.5 0.5 0.5	0.30 0.33 0.30 0.33 0.33	2.07 2.88 2.25 1.80 1.71	2.34 3.33 2.52 2.25 2.16	2.61 3.63 2.79 2.55 2.46
2.1 3.2 °2.2	0.8 0.8	1.2 0.5 0.5	2.34 3.33 2.43	3.42 4.05 3.15	4.50 4.50 3.60	1.20 1.00 1.00	1.4	2.7 1.6	0.9	0.5 0.5	0.30 0.33 0.33	2.11 3.33 2.34	2.38 3.78 2.79	2.65 4.08 3.09
°3.9 2.1	0.8 0.8	0.5 0.5	3.96 2.34	4.68 3.06	5.13 3.51	1.00 1.00		3.4 1.6		0.5 0.5	0.33 0.33	3.96 2.34	4.41 2.79	4.71 3.09
°2.6 °1.9 1.9 °3.4 4.2	0.8 0.8 0.8 0.8	0.5 0.5 0.4 0.5 0.5	2.79 2.16 2.16 3.51 4.23	3.51 2.88 2.52 4.23 4.95	3.96 3.33 2.88 4.68 5.40	1.00 1.00 1.00 1.00 1.00	1.4	2.0 1.4 2.5 2.7	0.9	0.5 0.5 0.5 0.5	0.33 0.33 0.25 0.33 0.33	2.70 2.16 1.93 3.15 3.33	3.15 2.61 2.16 3.60 3.78	3.45 2.91 2.38 3.90 4.08
2.5 2.2 °2.8 2.0 2.8	0.8	1.1 1.2 0.5 1.0	2.70 2.43 2.97 2.25 2.97	3.69 3.51 3.69 3.15 3.87	4.68 4.59 4.14 4.05 4.77	1.20 1.35 1.00 1.20 1.35	1.9 2.0 1.7 2.5	2.3	1.3 1.3 1.2 1.6	0.5	0.30 0.33 0.33 0.30 0.33	2.52 2.70 2.97 2.38 3.06	2.79 3.00 3.42 2.65 3.36	3.06 3.29 3.72 2.92 3.65
°2.3 °2.4 °1.9 °2.5 °2.9	0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.5	2.52 2.61 2.16 2.70 3.06	3.24 3.33 2.88 3.42 3.78	3.69 3.78 3.33 3.87 4.23	1.00 1.00 1.00 1.00 1.00	• • •	1.6 1.9 1.4 2.0 2.4		0.5 0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.34 2.61 2.16 2.70 3.06	2.79 3.06 2.61 3.15 3.51	3.09 3.36 2.91 3.45 3.81
°3.4 °2.1 °2.5 3.8 2.7	0.8 0.8 0.8 0.8	0.5 0.5 0.5 0.5 0.8	3.51 2.34 2.70 3.87 2.88	4.23 3.06 3.42 4.59 3.60	4.68 3.51 3.87 5.04 4.32	1.00 1.00 1.00 1.00 1.20	2.1	2.7 1.3 1.5 2.9		0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.30	3.33 2.07 2.25 3.51 2.65	3.78 2.52 2.70 3.96 2.92	4.08 2.82 3.00 4.26 3.19
2.4 6.0 °3.9 °1.7 °1.8	0.8 0.8 0.8 0.8	1.2 0.5 0.5 0.5 0.5	2.61 5.85 3.96 1.98 2.07	3.69 6.57 4.68 2.70 2.79	4.77 7.02 5.13 3.15 3.24	1.20 1.00 1.00 1.00 1.00	2.1	5.0 3.4 0.9 1.2	1.4	0.8 0.5 0.5 0.5	0.30 0.50 0.33 0.33 0.33	2.65 5.40 3.96 1.71 1.98	2.92 6.12 4.41 2.16 2.43	3.19 6.57 4.71 2.46 2.73

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

							4		and a n	ninimum
					Doм	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block	-		per kwh for		Ne	t monthly for	bill
	Flat-rat per or sche	■House he	Number of in firs	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Richmond	¢ No. 35 43 45 43 36	¢ 1.67 1.67 1.67 1.67	No. 50 50 60 50 50	\$ 3.0 3.4 2.9 3.0 3.2	1.5 1.7 1.5 1.6	6 0.8 1.0 0.9 0.9	\$ 1.2 1.4 1.1 1.2 1.3	\$ 2.02 2.29 1.96 2.02 2.16	\$ 4.41 5.04 3.94 4.45 4.72	\$ 5.85 6.84 5.92 6.07 6.34
Rockland Rockwood Rodney Rosseau Russell	36 45 45 43 36	1.67 1.67 1.67 1.67 1.67	50 50 60 50 50	2.6 3.0 2.5 3.4 2.2	1.3 1.5 1.7 1.1	0.8 0.9 1.0 0.7	1.1 1.2 1.0 1.4 1.0	1.75 2.02 1.71 2.29 1.48	3.87 4.45 3.51 5.04 3.28	5.31 6.07 5.31 6.84 4.54
St. Catharines St. Clair Beach St. George St. Jacobs St. Mary's	42 42 44 42 43	1.67 1.67 1.67 1.67 1.67	60 50 50 60 50	2.7 3.6 2.0 3.0 3.0	1.8 1.0 	1.1 0.7 0.9	1.5 1.5 1.0 1.1 1.2	2.00 2.43 1.35 2.02 2.02	4.70 5.35 3.01 4.00 4.45	7.40 7.33 4.27 5.98 6.07
St. Thomas Sandwich East Twp Sandwich West Twp Sarnia Scarborough Twp	43 41 41 40 37	1.67 1.67 1.67 1.67 1.67	60 50 50 50 50	3.2 4.4 4.2 2.8 3.0	2.2 2.1 1.4 1.5	1.2 1.2 0.8 0.9	1.2 1.6 1.6 1.1 1.2	2.16 2.97 2.83 1.89 2.02	4.32 6.48 6.21 4.14 4.45	6.48 8.64 8.37 5.58 6.07
Schreiber Twp	31 36 45 41 51	1.67 1.67 1.67	50 50 60 60	2.0 2.6 3.0 2.5 4.0	1.0	0.7	1.0 1.1 1.2 1.0 1.5	1.35 1.75 2.05 1.71 2.70	3.01 3.87 4.21 3.51 5.40	4.27 5.31 6.37 5.31 8.10
Smith's Falls	38 44 45 42	1.78	60 60 50	2.6 3.2 3.2			1.0 1.2 1.1	1.76 2.16 1.93	3.56 4.32 3.91 4.60	5.36 6.48 5.89
Stamford Twp	38 41	1.67 1.67 1.67 1.67	50 60 60 50 50	2.6 3.2 3.0 2.8 3.0	1.3 1.4 1.5	0.7	1.0 1.4 1.2 1.1 1.2	1.75 2.23 2.05 1.89 2.02	3.82 4.75 4.21 4.14 4.41	5.08 7.27 6.37 5.58 5.85
Stouffville	44 40 37 43 40 37	1.67 1.67 1.67 1.67 1.67	60 60 60 60 50 60	2.6 2.9 3.1 2.9 3.2 2.6	1.6	1.0	1.1 1.2 0.9 1.3 1.4 1.2	2.00 2.00 2.03 2.16 1.84	3.78 4.16 3.62 4.37 4.77 4.00	5.76 6.32 5.24 6.71 6.57 6.16

For explanatory notes and water-heating schedules see pages 264 to 267.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1959

are subject to 10% prompt payment discount monthly charge

	Con	MERCIA	AL SERV	ICE					Pow	ER SE	RVICE			
minir Ene	mand ra 100 was 0.0 cents, num 50 rgy rate h for use	cents per	f	monthly or use of of dema		Demand rate per kw		f	rate por use of de	f		f	monthly or use of of dema	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
°2.6 °2.7 2.4 °2.7 °2.4	6 0.8 0.8 0.8 0.8	6 0.5 0.5 0.9 0.5 0.5	\$ 2.79 2.88 2.61 2.88 2.61	\$ 3.51 3.60 3.42 3.60 3.33	\$ 3.96 4.05 4.23 4.05 3.78	\$ 1.00 1.00 1.35 1.00 1.00	¢ 2,2	¢ 2.1 2.1 2.0 1.7	1.4	0.5 0.5 0.5 0.5	6 0.33 0.33 0.33 0.33	\$ 2.79 2.79 2.83 2.70 2.43	\$ 3.24 3.24 3.13 3.15 2.88	\$ 3.54 3.54 3.43 3.45 3.18
°2.1 °2.6 2.2 °2.9 °1.6	0.8 0.8 0.8 0.8	0.5 0.5 0.8 0.5 0.5	2.34 2.79 2.43 3.06 1.89	3.06 3.51 3.15 3.78 2.61	3.51 3.96 3.87 4.23 3.06	1.00 1.00 1.35 1.00 1.00	2.2	1.3 2.1 2.1 1.1	1.4	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33	2.07 2.79 2.83 2.79 1.89	2.52 3.24 3.13 3.24 2.34	2.82 3.54 3.43 3.54 2.64
d2.3 °3.0 °1.8 2.5 °2.5	0.8 0.8 	1.1 0.5 0.5 1.0 0.5	2.52 3.15 2.07 2.70 2.70	3.51 3.87 2.79 3.60 3.42	4.50 4.32 3.24 4.50 3.87	1.20 1.00 1.00 1.20 1.00	1.9 1.7	2.3 1.5 	1.3	0.5 0.5 	0.30 0.33 0.33 0.30 0.33	2.52 2.97 2.25 2.38 2.25	2.79 3.42 2.70 2.65 2.70	3.06 3.72 3.00 2.92 3.00
2.3 °3.9 °3.5 °2.4 °2.2	0.8 0.8 0.8 0.8	0.6 0.5 0.5 0.5 0.5	2.52 3.96 3.60 2.61 2.43	3.06 4.68 4.32 3.33 3.15	3.60 5.13 4.77 3.78 3.60	1.20 1.00 1.00 1.00 1.00	1.6	3.4 3.0 1.4 1.7	1.0	0.5 0.5 0.5 0.5	0.30 0.33 0.33 0.33 0.33	2.25 3.96 3.60 2.16 2.43	2.52 4.41 4.05 2.61 2.88	2.79 4.71 4.35 2.91 3.18
°1.7 °2.0 2.5 2.0 3.5	0.8	0.5 0.5 1.2 0.8 2.0	1.98 2.25 2.70 2.25 3.60	2.70 2.97 3.78 2.97 5.40	3.15 3.42 4.86 3.69 7.20	1.00 1.00 1.20 1.20 1.35	1.7 1.7 2.8	1.2 1.5	1.2 1.2 1.2	0.5	0.33 0.33 0.30 0.30 0.33	1.98 2.25 2.38 2.38 3.28	2.43 2.70 2.65 2.65 3.58	2.73 3.00 2.92 2.92 3.88
2.0 2.8 2.9	•••	0.7 1.1 1.1	2.25 2.97 3.06	2.88 3.96 4.05	3.51 4.95 5.04	1.00 1.35 1.35	1.5 2.5 2.2		1.1 1.6 1.4		0.25 0.33 0.33	2.07 3.06 2.83	2.29 3.36 3.13 4.50	2.52 3.65 3.43 5.50
°1.9	0.8	0.5	3.50 2.16	4.50 2.88	5.50 3.33	1.00		1.4		0.5	0.33	2.16	2.61	2.91
2.9 2.5 °2.2 °2.4 2.1	0.8	1.3 1.2 0.5 0.5 1.1	3.06 2.70 2.43 2.61 2.34	4.23 3.78 3.15 3.33 3.33	5.40 4.86 3.60 3.78 4.32	1.20 1.20 1.00 1.00 1.35	1.9	1.3	1.3	0.5 0.5	0.30 0.30 0.33 0.33 0.33	2.52 2.52 2.07 2.43 2.70	2.79 2.79 2.52 2.88 3.00	3.06 3.06 2.82 3.18 3.29
2.4 2.5 2.4 °2.6 2.4	0.8	0.7 0.6 1.3 0.5 1.2	2.61 2.70 2.61 2.79 2.61	3.24 3.24 3.78 3.51 3.69	3.87 3.78 4.95 3.96 4.77	1.20 1.20 1.20 1.00 1.35	1.7 1.7 2.1 2.0	2.0	1.2 1.2 1.4 	0.5	0.30 0.30 0.30 0.33 0.33	2.38 2.38 2.65 2.70 2.70	2.65 2.65 2.92 3.15 3.00	2.92 2.92 3.19 3.45 3.29

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a m	inimum
					Dom	ESTIC SE	RVICE			
Municipality	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block			oer kwh		Net	monthly for	bill
	Flat-rate per or sche	■House hea	Number of in firs	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Sunderland	¢ No. 45 45 45 37	1.67 1.67 1.67	No. 60 50 60 50 50	¢ 3.5 3.4 2.7 2.4 2.6	1.7 1.2 1.3	1.0 0.7 0.8	¢ 1.0 1.4 1.0 1.1	\$ 2.25 2.29 1.82 1.62 1.75	\$ 4.05 5.04 3.62 3.55 3.87	\$ 5.85 6.84 5.42 4.81 5.31
Tavistock. Tecumseh. Teeswater. Terrace Bay. Thamesford.	39 41 42 35 45	1.67 1.67 1.67 1.67	60 50 50 50 50	2.7 3.2 2.6 2.0 3.4	1.6 1.3 1.0 1.7	1.0 0.8 0.7 1.0	1.4 1.4 1.1 1.0 1.4	1.96 2.16 1.75 1.35 2.29	4.48 4.77 3.87 3.01 5.04	7.00 6.57 5.31 4.27 6.84
Thamesville	45 45 48 42 42	1.67 1.67 1.67 1.67 1.67	50 50 50 60 50	2.8 2.6 4.0 3.5 3.6	1.4 1.3 2.0 	0.8 0.7 1.2 	1.1 1.0 1.6 1.3 1.4	1.89 1.75 2.70 2.36 2.43	4.14 3.82 5.94 4.70 5.31	5.58 5.08 8.10 7.04 7.11
†Thornloe	42 39 40 45 40	1.67 1.67 1.67 1.67	60 60 50 50	3.8 2.7 3.0 2.8	1.5 1.4	0.9	1.0 1.4 1.2 1.1	2.30 2.41 1.96 2.02 1.89	4.60 4.21 4.48 4.45 4.14	6.60 6.01 7.00 6.07 5.58
†Timmins (including Schumacher) Toronto (including Leaside) Toronto Twp	42 ** 37	1.67 2.10 1.67	60 50	2.0	1.5	0.8	1.4 1.2	2.30 1.58 2.02	4.60 4.10 4.41	6.60 6.62 5.85
TottenhamTrafalgar TwpTrentonTweedUxbridgeVankleek Hill.	33 37 39 40	1.67 1.67 1.67 1.67 1.67 1.67	50 50 60 50 50	3.5 3.8 1.8 1.8 2.6 3.4	1.9 0.9 1.3 1.7	0.7 0.7 1.0	1.0 1.5 0.8 1.0 1.0	2.02 2.56 1.26 1.21 1.75 2.29	3.82 5.62 2.70 2.74 3.82 5.04	5.62 7.60 4.14 4.00 5.08 6.84
Victoria Harbour Walkerton Wallaceburg Wardsville Warkworth Wasaga Beach	38 41 52 38	1.67 1.67 1.67 	50 50 60 50 50	3.2 2.6 2.4 3.6 2.6 3.6	1.3 1.2 1.3 1.8	0.8 0.7 	1.3 1.1 1.0 0.9 1.1 1.5	2.20 1.75 1.62 2.27 1.75 2.43	3.87 3.55 3.89 3.87 5.35	5.31 4.81 5.51 5.31 7.33
Waterdown Waterford Waterloo. Watford. Waubaushene.	42 42 35 45	1.67	60 50 60 60	2.6 3.2 2.6 3.1 3.2	1.6	0.9	1.2 1.3 1.1 1.1 1.2	1.84 2.16 1.80 2.07 2.16	4.00 4.72 3.78 4.05 4.32	6.16 6.34 5.76 6.03 6.48

[†]Local system

[▲]Special rates

For explanatory notes and water-heating schedules see pages 264 to 267.

Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1959

are subject to 10% prompt payment discount monthly charge

monini	y charge													-
	Con	MERCIA	AL SERV	ICE					Pow	ER SEI	RVICE			
minin Ene	emand ra r 100 was 5.0 cents, num 50 rgy rate h for use kw of de	cents per of	fo	monthly or use of of dema	-	rate per kw		f	rate por use o	f		f	nonthly or use of of dema	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand rate per	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
\$ 3.0 °3.0 2.4 °1.9 °2.4	0.8 0.8 0.8	6 0.8 0.5 0.7 0.5 0.5	\$ 3.15 3.15 2.61 2.16 2.61	\$ 3.87 3.87 3.24 2.88 3.33	\$ 4.59 4.32 3.87 3.33 3.78	"	¢ 3.2 2.0	2.5 1.3 1.9	¢ 2.1 1.3	0.5 0.5 0.5	¢ 0.33 0.33 0.33 0.33 0.33	\$ 3.60 3.15 2.70 2.07 2.61	\$ 3.90 3.60 3.00 2.52 3.06	\$ 4.19 3.90 3.29 2.82 3.36
2.3 °2.7 °2.3 °1.8 °2.9	0.8 0.8 0.8 0.8	1.4 0.5 0.5 0.5 0.5	2.52 2.88 2.52 2.07 3.06	3.78 3.60 3.24 2.79 3.78	5.04 4.05 3.69 3.24 4.23	1.35 1.00 1.00 1.00 1.00	2.2	1.9 1.8 1.3 2.4	1.4	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.83 2.61 2.52 2.07 3.06	3.13 3.06 2.97 2.52 3.51	3.43 3.36 3.27 2.82 3.81
°2,3 °2,4 4.0 3.1 °3.2	0.8 0.8 0.8 	0.5 0.5 0.5 1.3 0.5	2.52 2.61 4.05 3.24 3.33	3.24 3.33 4.77 4.41 4.05	3.69 3.78 5.22 5.58 4.50	1.00 1.00 1.00 1.20 1.00	1.9	1.7 1.8 3.2 2.4	1.3	0.5 0.5 0.5 	0.33 0.33 0.33 0.30 0.33	2.43 2.52 3.78 2.52 3.06	2.88 2.97 4.23 2.79 3.51	3.18 3.27 4.53 3.06 3.81
3.3 2.2 °2.6 °2.3	0.8	1.0 1.2 0.5 0.5	3.50 3.42 2.43 2.79 2.52	4.50 4.32 3.51 3.51 3.24	5.50 5.22 4.59 3.96 3.69	1.35 1.20 1.00 1.00	2.8 1.7	1.9	1.8	0.5 0.5	0.33 0.30 0.33 0.33	3.50 3.28 2.38 2.61 2.34	4.50 3.58 2.65 3.06 2.79	5.50 3.88 2.92 3.36 3.09
A	A	A	3.50	4.50	5.50		•	A	A	A	A	3.50	4.50	5.50
c2.1 °2.3 3.0 °3.0	0.8	0.7 0.5 1.0 0.5	2.65 2.52 3.15 3.15	3.28 3.24 4.05 3.87	3.91 3.69 4.95 4.32	1.10 1.00 1.35 1.00	2.1	1.7	1.4	0.5	0.38 0.33 0.33 0.33	2.56 2.43 3.28 3.06	2.91 2.88 3.58 3.51	3.25 3.18 3.88 3.81
1.6 °1.6 °2.4 °2.7 2.7	0.8 0.8 0.8	0.6 0.5 0.5 0.5 1.3	1.89 1.89 2.61 2.88 2.88	2.43 2.61 3.33 3.60 4.05	2.97 3.06 3.78 4.05 5.22	1.00 1.00 1.00 1.00 1.35	1.5	0.8 1.9 2.0	1.1	0.5 0.5 0.5	0.25 0.33 0.33 0.33 0.33	2.07 1.62 2.61 2.70 3.28	2.29 2.07 3.06 3.15 3.58	2.52 2.37 3.36 3.45 3.88
°2.3 °1.9 3.2 °2.2 °3.0	0.8 0.8 0.8 0.8	0.5 0.5 0.8 0.5 0.5	2.52 2.16 3.33 2.43 3.15	3.24 2.88 4.05 3.15 3.87	3.69 3.33 4.77 3.60 4.32	1.00 1.00 1.35 1.00 1.00	2.8	1.4 1.3 1.5 2.5	1.8	0.5 0.5 0.5 0.5	0.33 0.33 0.33 0.33 0.33	2.16 2.07 3.28 2.25 3.15	2.61 2.52 3.58 2.70 3.60	2.91 2.82 3.88 3.00 3.90
2.2 °2.7 2.2 2.8 2.6	0.8	1.2 0.5 1.0 0.9 1.2	2.43 2.88 2.43 2.97 2.79	3.51 3.60 3.33 3.78 3.87	4.59 4.05 4.23 4.59 4.95	1.20 1.00 1.20 1.35 1.35	1.9 2.1 2.5 3.2	2.0	1.3 1.4 1.6 2.1	0.5	0.30 0.33 0.30 0.33 0.33	2.52 2.70 2.65 3.06 3.60	2.79 3.15 2.92 3.36 3.90	3.06 3.45 3.19 3.05 4.19

Municipal Electrical RATES AND TYPICAL BILLS in effect

Rates are quoted on a monthly basis and and a minimum

									and a n	iinimum
					Дом	ESTIC SE	RVICE			
${ m Municipality}$	Flat-rate water-heating per 100 watts or schedule number	House heating per kwh	of kwh supplied first block			per kwh or		Ne	t monthly for	bill
	Flat-ra pe or sch	■House he	Number of in fir	First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
Webbwood. Welland. Wellesley. Wellington. West Ferris Twp. West Lorne. Weston. Westport.	k No. 43 41 44 41 37 45 37 38	¢ 1.67 1.67 1.67 1.67 1.67 1.67	No. 60 60 60 50 50 60 60 50	6.0 2.4 3.3 2.0 3.6 3.2 2.5 2.4	f 1.0 1.8 1.6	0.7 1.1 0.9	¢ 2.5 1.1 1.3 1.0 1.5	\$ 4.14 1.69 2.25 1.35 2.43 2.16 1.78 1.62	\$ 8.64 3.67 4.59 3.01 5.35 4.72 3.94 3.55	\$ 13.14 5.65 6.93 4.27 7.33 6.34 6.10 4.81
Wheatley Whitby	45 36	1.67 1.67	60 50	3.3	1.5	0.8	1.2	2.21 2.02	4.37 4.41	6.53 5.85
†White River Wiarton Williamsburg Winchester Windermere	43 40 41 45	1.67 1.67 1.67	50 50 60 60 50	7.0 2.4 2.0 2.5 3.2	3.5 1.2 1.6	0.7	1.6 1.0 0.8 1.2 1.4	4.72 1.62 1.37 1.78 2.16	10.17 3.55 2.81 3.94 4.77	13.05 4.81 4.25 6.10 6.57
Windsor. Wingham Woodbridge. Woodstock Woodville.	40 44 42 36 45	1.67 1.67 1.67 1.67 1.67	50 50 50 50 60	2.4 2.4 2.8 3.2 3.8	1.2 1.2 1.4 1.6	0.7 0.7 0.8 0.9	1.0 1.0 1.1 1.3 1.2	1.62 1.62 1.89 2.16 2.48	3.55 3.55 4.14 4.72 4.64	4.81 4.81 5.58 6.34 6.80
Wyoming	45 42 45	1.67 1.67	50 50 60	2.6 2.2 3.7	1.3	0.7 0.7	1.0 1.0 1.2	1.75 1.48 2.43	3.82 3.28 4.59	5.08 4.54 6.75

†Local system

Service Charges

NOTES

- a 33¢ per month per service when the permanently installed appliance load is under 2,000 watts and 66¢ per month when 2,000 watts or more.
- b 56¢ per month.
- c Demand rate 8.5¢ per 100 watts, minimum 50¢.
- d Minimum demand charge 25¢.

House Heating

Applicable where electric energy is used to heat an entire dwelling or a portion of a dwelling in excess of 25% of the floor area.

Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1959

are subject to 10% prompt payment discount monthly charge

	Con	MMERCI.	AL SERV	/ICE					Pov	VER SE	RVICE			
minin Ene	emand rar 100 was 5.0 cents mum 50 ergy rate h for use kw of de	cents per e of mand	f	monthly or use of v of dem		rate per kw		f	rate p or use o	f		í	monthly for use of v of dema	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	Demand rate per	First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6.0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	\$\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\$ 5.40 2.34 2.97 2.07 3.15 2.97 2.25 2.43 3.06 2.52 5.67 2.43 2.25 2.97 2.43 2.34 2.52 2.52 3.33 2.61	\$ 7.65 3.24 4.05 2.79 3.87 3.69 3.15 3.15 4.14 3.24 6.39 3.15 2.97 3.24 3.69 3.15 3.06 3.24 3.24 3.33	\$ 9,90 4.14 5.13 3.24 4.32 4.14 4.05 3.60 5.22 3.69 4.23 4.14 3.60 3.51 3.69 3.69 5.49		\$ 3.5 1.9 2.0 1.6 2.5 3.1 2.0 	1.3 2.0 2.3 1.7 1.5 5.1 1.7 2.3 1.5 1.6 1.8	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	6 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.3	\$ 3.82 2.52 2.70 2.07 2.70 2.97 2.25 2.43 3.06 2.25 5.49 2.43 3.51 2.70 2.97 2.25 2.34 2.52 2.34 3.06 2.61	\$ 4.12 2.79 3.00 2.52 3.15 3.42 2.52 2.88 3.36 2.70 5.94 2.88 3.81 3.00 3.42 2.70 2.79 2.97 2.79 3.36 3.06	\$ 4.42 3.06 3.29 2.82 3.45 3.72 2.79 3.18 3.65 3.00 6.24 3.18 4.10 3.29 3.72 3.00 3.09 3.27 3.09 3.65 3.36
°1.7 3.4	0.8	0.5	1.98	2.70 4.32	3.15 5.13	1.00	3.1	1.2	2.0	0.5	0.33	1.98 3.51	2.43 3.81	2.73 4.10

NOTES

Special Rates or Discounts

‡2-wire service next 80 kwh; 3-wire service next 180 kwh.

*First 60 kwh of monthly consumption at 2.0¢, second 60 kwh and all kwh in excess of 1,000 at 1.0¢.

System-owned—First 400 watts \$2.90 per month.

Each 100 watts additional 40¢ per month, plus a monthly charge for larger tank sizes as follows:

30¢ for 1,000-watt and 1,200-watt heaters.

40¢ for 1,500-watt heaters.

50¢ for 2,000-watt and 2,500-watt heaters.

55¢ for heaters 3,000 watts and over.

Customer-owned—First 400 watts \$1.98 per month.

Each 100 watts additional 40¢ per month.

°Commercial customers with a connected load of under 5 kilowatts billed at domestic rates.

Farm customers billed at standard rural rates.

§§Farm customers billed at special rates.

^{**}Flat-rate water-heater service—Toronto:

Municipal Electrical

GROSS MONTHLY ENERGY RATES

Subject to 10%

																Sci	HEDULE
Element rating	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
watts	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
400	1.00	1.04	1.08	1.12	1.16	1.20	1.24	1.28	1.32	1.36	1.40	1.44	1.48	1.52	1.56	1.60	1.64
450	1.12	1.17	1.21	1.26	1.30	1.36	1.40	1.44	1.49	1.53	1.58	1.62	1.67	1.71	1.76	1.80	1.84
500	1.25	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.70	1.75	1.80	1.85	1.90	1.95	2.00	2.05
550	1.38	1.43	1.49	1.54	1.60	1.66	1.70	1.76	1.81	1.87	1.92	1.98	2.03	2.09	2.14	2.20	2.26
600	1.50	1.56	1.62	1.68	1.74	1.80	1.86	1.92	1.98	2.04	2.10	2.16	2.22	2.28	2.34	2.40	2.46
650	1.59	1.66	1.71	1.78	1.84	1.91	1.97	2.03	2.10	2.16	2.22	2.29	2.36	2.41	2.48	2.54	2.61
700	1.68	1.74	1.81	1.88	1.94	2.01	2.08	2.14	2.21	2.28	2.34	2.41	2.48	2.54	2.61	2.68	2.74
750	1.78	1.84	1.91	1.99	2.06	2.12	2.20	2.27	2.34	2.41	2.48	2.56	2.62	2.69	2.77	2.83	2.91
800	1.86	1.93	2.00	2.08	2.16	2.22	2.30	2.38	2.44	2.52	2.60	2.67	2.74	2.82	2.90	2.97	3.04
850	1.94	2.02	2.10	2.18	2.26	2.33	2.41	2.49	2.57	2.64	2.72	2.80	2.88	2.96	3.03	3.11	3.19
900	2.04	2.12	2.20	2.29	2.37	2.44	2.53	2.61	2.69	2.78	2.86	2.93	3.02	3.10	3.18	3.27	3.34
950	2.13	2.22	2.30	2.39	2.48	2.56	2.64	2.73	2.81	2.90	2.99	3.07	3.16	3.24	3.33	3.41	3.50
1,000	2.22	2.31	2.40	2.49	2.58	2.67	2.76	2.84	2.93	3.02	3.11	3.20	3.29	3.38	3.47	3.56	3.64

Note: Gross monthly rates for all element sizes over 1,000 watts are calculated as follows:

Rate for 1,000-watt element X Element rating

Utilities and Local Systems

FOR FLAT-RATE WATER-HEATING

prompt payment discount

NUMB	ER																	
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.96	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.28	2.32	2.36	2.40
1.89	1.93	1.98	2.02	2.07	2.11	2.16	2.20	2.26	2.29	2.34	2.38	2.42	2.47	2.52	2.56	2.60	2.66	2.72
2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.45	2.50	2.55	2.60	2.65	2.70	2.75	2.80	2.85	2.90	2.95	3.00
2.31	2.37	2.42	2.48	2.53	2.59	2.64	2.70	2.76	2.81	2.86	2.92	2.98	3.03	3.08	3.14	3.20	3.26	3.32
2.52	2.58	2.64	2.70	2.76	2.82	2.88	2.94	3.00	3.06	3.12	3.18	3.24	3.30	3.36	3.42	3.48	3.54	3.60
2.67	2.73	2.80	2.86	2.92	2.99	3.06	3.11	3.18	3.25	3.32	3.37	3.42	3.49	3.56	3.62	3.68	3.75	3.82
2.81	2.88	2.94	3.01	3.08	3.14	3.21	3.28	3.34	3.42	3.48	3.55	3.62	3.69	3.76	3.82	3.88	3.95	4.02
2.98	3.04	3.12	3.19	3.26	3.33	3.40	3.48	3.54	3.62	3.68	3.75	3.82	3.90	3.98	4.05	4.12	4.18	4.24
3.12	3.19	3.27	3.34	3.41	3.49	3.57	3.63	3.71	3.79	3.86	3.93	4.00	4.08	4.16	4.24	4.32	4.38	4.44
3.27	3.34	3.42	3.50	3.58	3.66	3.73	3.81	3.90	3.96	4.04	4.12	4.20	4.28	4.36	4.44	4.52	4.59	4.66
3.42	3.51	3.59	3.67	3.76	3.83	3.91	4.00	4.08	4.16	4.24	4.32	4.40	4.49	4.58	4.66	4.74	4.81	4.88
3.59	3.67	3.76	3.84	3.92	4.01	4.10	4.18	4.27	4.35	4.44	4.52	4.60	4.69	4.78	4.87	4.96	5.04	5.12
3.73	3.82	3.91	4.00	4.09	4.18	4.27	4.36	4.44	4.53	4.62	4.71	4.80	4.89	4.98	5.07	5.16	5.25	5.34

Forty Major Municipal (Arranged in descending order CUSTOMERS, REVENUE, for the Year Ended

				Domestic	SERVICE		
			(in	cluding flat-rat	e water-	heaters)	
	Total	Total		1]		
	revenue	consumption				er er	Av-
Municipality	including	including				offic offi	erage
	street	street			Cus-	nthly sumption customer	cost
	lighting	lighting	Revenue	Consumption	tomers		kwh
						Mo con per	25. 44.11
		, ,					
Toronto (including Leaside)	\$ 36.297.666	kwh 3,079,038,469	\$ 11,650,639	kwh 934,446,700	No.	kwh	é
Hamilton	14,927,861		3,845,815	331,314,240	171,270 66,846	455 413	1.25 1.16
♦Ottawa (including Eastview and	21,521,001	1,020,002,120	0,010,010	001,011,210	00,040	413	1.10
Rockcliffe Park)	9,514,931	982,737,255	4,159,324	545,137,135	73,730	616	0.76
♦Sarnia	5,205,079	794,403,146	676,689	53,918,775	13,948	322	1.26
North York Twp	8,494,258	733,933,153	4,809,050	446,522,972	68,461	544	1.08
A Scorborough Two	6 909 265	E62 E46 E02	4 002 121	227 045 550	50 46 C		4.00
◆Scarborough Twp Etobicoke Twp. (including)	6,808,265	563,546,582	4,002,121	327,945,558	58,416		1.22
Thistletown)	5,728,037	535,718,557	3,186,882	289,666,350	44,112	547	1.10
♦Windsor	4,353,098	370,951,787	1,413,068		34,236	306	1.12
London	3,881,312	348,237,175	1,509,821	119,599,178	28,989	344	1.26
♦ York Twp	3,204,911	318,818,999	2,005,268	210,947,435	38,132	461	0.95
Vitahanan	2 # 4 7 0 7 0	201 25 205					
Kitchener	3,547,070 2,620,595	304,256,287	1,398,760	121,493,197	20,153	502	1.15
♦Oshawa ♦Toronto Twp	2,722,930	299,029,362 295,343,608	907,640 997,781	106,603,761 93,339,144	16,785 14,306	529 544	0.85
Brantford	2,129,460	202,347,594	863,744	76,704,734	14,896	429	1.13
St. Catharines	2,348,607	196,558,523	760,630	56,753,818	12,120	390	1.13
					,		
Kingston	1,933,615	187,465,903	814,512	88,526,292	12,875	573	0.92
Port Arthur	1,715,754	187,151,419	703,373	83,730,590	11,699	596	0.84
Fort William	1,659,220 1,947,840	186,757,084 181,921,550	739,932 885,395	93,956,809 81,092,002	11,744	667	0.79
◆East York Twp.	1,813,935	171,652,303	1.190.637	115,520,123	12,826 21,164	527 455	1.09
	-,,	,,	2,270,007	110,020,120	21,101	455	1.00
♦Guelph	1,602,816	154,171,913	692,259	62,950,394	10,629	494	1,10
New Toronto	1,266,280	153,156,882	214,496	19,599,006	3,688	443	1.09
Sudbury	1,753,384	128,710,354	974,275	82,564,296	14,045	490	1.18
Burlington.Trafalgar Twp.	1,744,590 1,141,168	122,776,813 107,529,389	1,184,640	84,709,993	12,437	568	1.40
wp	1,141,100	107,329,369	587,443	47,092,740	6,748	582	1.25
Galt	1,175,365	100,169,728	472,137	39,722,672	7.612	435	1.19
Belleville	866,243	99,571,324	419,000	51,971,446	8,160	531	0.81
Merritton	792,100	99,301,660	101,740	7,969,166	1,732	383	1.28
♦ Woodstock	968,396	86,689,662	409,383	34,395,558	6,193	463	1.19
Chatham	1,366,430	84,630,992	397,560	22,024,564	8,027	229	1.81
♦Niagara Falls	987,926	83,735,697	379,184	30,107,379	6,923	362	1,26
Trenton	605,649	83,254,585	178,158	22,095,508	3,515	524	0.81
Barrie	782,710	76,324,239	386,050	38,195,744	5,914	538	1.01
Stamford Twp	1,007,702	74,658,669	555,521	43,875,596	8,147	449	1.27
St. Thomas	820,663	72,085,122	357,504	28,648,810	6,171	387	1.25
♦ Waterloo	026.200	70 756 004	277 100	26 800 06			
♦Waterloo Stratford	826,390 861,627	70,756,001 70,402,144	377,490 420,948	36,503,360 36,265,548	5,449	558	1.03
Brockville	681,807	70,402,144	268,052	26,203,666	6,130 4,770	493 458	1.16 1.02
North Bay	858,118	69,576,115	439,253	37,727,558	6,115	514	1.16
Orillia	716,446	67,831,279	247,401	25,239,717	4,545	463	0.98

Electrical Utilities of total consumption)

AND CONSUMPTION

(incl	COMMERCIAL					Powe	R SERVIC	E		
(inc)	luding flat-rate	water-n	eaters)							
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
9,079,047	619,237,710		1,902	1.47		1,478,649,419	6,798	393,313		0.99
2,098,394	168,270,990	8,037	1,745	1.25	8,646,178	1,303,357,328	1,391	258,332	78,083	0.66
4,513,479			3,004	1.19	523,646	48,164,749	204	17,646		
321,877		788	2,406	1.41	4,148,207	715,448,699	169		352,785	
2,039,205	130,922,471	5,423	2,012	1.56	1,477,129	144,690,750	1,040	48,315	11,594	1.02
1,159,418	81,427,999	2,160		1.42	1,425,594	144,705,405	296	40,850		0.99
831,083	57,489,780	**1,615	2,966	1.45	1,530,075	180,464,023	785	49,295	19,158	0.85
811,667		2,067	2,493		1,891,884		747	63,933	19,398	
947,995		2,899	2,029	1.34	1,285,123	152,077,063	431	41,925		
450,569	35,702,482	1,113	2,673	1,26	623,118	66,717,082	480	21,854	11,583	0.93
659,507	41,843,081	1,711	2,038	1.58	1,381,991	136,007,409	365	38,833	31,052	
369,918	30,893,100	1,498	1,719	1.20	1,241,479	156,528,501	258	39,778		
314,425	22,763,781	1,072	1,770	1.38	1,347,846		147		100,428	
345,100	27,524,336	1,545	1,485		859,553		297	30,566		0.90
454,770	27,015,134	1,601	1,406	1.68	1,066,893	109,783,171	259	31,277	35,323	
652,458	54,360,575	2,027	2,235	1.20	407,825			13,213		
363,943		1,475			591,618			25,042		
352,667	34,762,237	1,492			486,396			20,503		0.88
426,950								19,364		
217,782	15,784,777	736	1,787	1.38	332,732	37,382,603	207	10,569	15,049	0.0
267,288	19,355,299	959	1,682	1.38	596,288	69,922,820	145	18,710		
93,468	1				943,456				119,356	
518,974		1,629	1,542	1.72						
245,132	14,595,294	514	2,366					7,402		
62,536	3,165,620	121	2,180	1.98	485,047	57,103,029	69	9,999		
181.044	10,428,741	797	1,090	1.74	471,496					
225,193			1,444	1.15	197,863					
50,498		159	1,455	1.82					253,682	
135,269	9,307,568	361	2,149			40,988,936				
408,770	19,552,197	1,181	1,380	2.09	494,789					
320,533	26,543,734	540	4,096		246,815					
79,299										
198,311										
186,222	8,537,485									
167,185	12,133,205	725	1,395	1.38	275,736	30,516,019				
156,862	9,825,956	473	1,731							
176,407			1,452							
114,325										
265,543		1,058								
156,277		652	1,547	1.29	297,285	29,757,784	137	11,073	10,101	2,50

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

			-	Domestic	SERVICE		<u> </u>
			(in	cluding flat-rat	e water-h	eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
Acton	4,204	1,303	83,503	6,893,015	1.206	1	1.21
♦ Ailsa Craig	547	224	9,830	729,960	203	300	1.35
♦Ajax	8,013	2,157	132,908	10,295,626	1,976	434	1.29
♠Alexandria	2,529	842	37,039	3,542,435	764	386	1.05
♦Alfred	952	298	11,792	772,758	274	,235	1.53
Alliston	2,918	1.041	53,543	4,675,730	857	455	1.15
♦Almonte	3,227	1,062	50,037	5,246,196	984	444	0.95
Alvinston	648	319	7,300	394,420	249	132	1.85
♦Amherstburg	4,389	1,392	87,435	7,685,182	1,253	511	1.14
Ancaster Twp. (including Ancaster).	13,302	1,121	98,950	7,530,225	1,044	601	1.31
Apple Hill	400	126	4,421	268,900	104	215	1.64
	476	199	11,886	841,522	188	373	1.41
♦Arnprior	5,482	1,740	88,248	8,932,689	1,605	464	0.99
♦Arthur	1,215	488	22,080	1,793,260	435	344	1.23
♦Athens	964	348	12,309	1,271,387	332	319	0.97
	6,906	1,900	152,742	11.842.403	1.762	560	1.29
♦Aurora	5,302	2,231	88,356	9,196,785	2,012	381	0.96
♦Avonmore (3 months' operation)	277	115	1,987	118,838	103	385	1.67
♦Aylmer	4,536	1,580	70,893	6,738,032	1,315	427	1.05
Ayr	1,019	367	17,707	1,528,568	302	422	1.16
⊕ Baden	875	282	15,564	1,331,435	264	420	1.17
♦†Bala	*474	782	29,191	1,119,024	699	133	2.61
Bancroft	2,619	786	47,144	3,193,820	651	409	1.48
Barrie	20,899	6,803	386,050	38,195,744	5,914	538	1.01
♠ Barry's Bay	1,461	401	12,927	787,474	372	176	1.64
Bath	650	245	13,785	955,778	219	364	1.44
◆ Beachville	813	290	15,929	1,339,941	281	397	1.19
Beamsville	2,356	827	46,417	4,080,877	706	482	1.14
♦†Beardmore	1,137	311	18,496	1,067,848	282	(339)	1.73
Beaverton	1,156	538	24,107	1,841,425	443	346	1.31
Beeton	775	308	15,826	1,071,130	254	351	1.48
♦ Belle River	1,919	686	27,714	1,446,550	625	193	1.92
Belleville	28,700	9,450	419,000	51,971,446	8,160	531	0.81
◆ Blenheim	2,975	1,100	35,748	2,426,785	979	(210)	1.47
♦†Blind River	3,898	1,287	83,231	5,155,966	1,185	363	1.61
♦ Bloomfield	755	307	11,559	1,229,561	287	357	0.94
♦ Blyth	730	326	14,364	1,147,240	288	332	1.25
Bobcaygeon	1,180	709	26,163	1,599,710	588	227	1.64
♦Bolton	1,702	650	46,590	3,246,955	612	442	1.43
Bothwell	804	321	8,429	632,860	245	215	1.33

(incl	COMMERCIAL uding flat-rate		aters)			Powi	ER SERVIC	E		
·Revenue	Consumption	Cus-	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	é	\$	kwh	No.	kw	kwh	¢
23,846	1,408,980	66	1,779	1.69	100,913	7,539,412	31	2,695	20,267	1.34
3,319	192,668	17	944	1.72	3,752	172,324	4	111	3,590	2.18
32,065	2,045,360	109	1,564	1.57	141,651	12,281,837	72	3,972	14,215	1.15
18,382	1,251,444	60	1,738	1.47	24,324	1,853,870	18	727	8,583	1.31
2,781	149,360	16	778	1.86	6,477	337,700	8	223	3,518	1.92
05.040	4 473 014	155	701	1 71	17 154	1,346,561	29	550	3,869	1.27
25,210		155	791	1.71	17,154 30,070		25	1,088	11,152	0.90
11,389		53 62	1,321 412	2.13	2,115	86,080	8	68	897	2,46
6,517 34,106		113	1.587	1.58	57,377	5,236,680	26	1,634	16,784	1.10
17,749		1	923	2.43	4,517	248,570	11	139	1,883	1.82
17,747	731,100	00	920	2.10	1,01,	210,010				
1,449	63,760	22	242	2.27						
1,999	139,345	9	1,290	1.43	2,702	163,660	2	67	6,819	
31,545	2,355,437	104	1,887	1.34	55,198			1,847		
7,380	394,405	38	865	1.87	5,673					
2,285	174,170	14	1,037	1.31	869	51,200	2	46	2,133	1.70
E0 044	2 452 202	109	2,410	1,59	50,068	5,610,381	29	1.205	16,122	0.89
50,246	1 1	1	1,439	1.32	76,825			2,468	15,996	0.98
40,538			851	1.80	70,020	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
551 44,318		1	1.192	1.35	80,154	7,339,876	36	2,760	16,990	1.09
8,515			786					338	2,979	2.28
0,310	1,0,010									
2,372	154,265	13	989	1.54	18,177		1		1 .	
10,113		77	482	2.27	958					1
27,788	1,298,000	122	887					i i	1	1
198,31	13,879,708	783	1,477					1		
5,670	343,315	5 26	1,100	1.65	929	68,980	3	23	1,916	1.55
	147.02	5 24	513	2.42	824	53,310	2	2 23	2,221	1.55
3,578									1	
1,878		1		1						
18,24								2 (38	13.00
13,40 12,88					1		5 12	724	11,29	1.35
12,88	790,100		.,,							
5,15	203,21	7 46	368					}		
14,36										
225,19		8 1,127								
28,04	1		1							
44,02			2,316	1.84	18,34	1,230,19	10	4.2	0,40	1,49
	405.00	4 15	1,033	1.68	1,06	34,49	9	5 7	4 57	
3,12		^						7 30	7 12,02	
5,31		-1						8 25		
14,20				1						
7,25							0 1	0 20	3 1,15	0 3.81
6,74	452,18	00	37.	1			1			1

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

			(!n	Domestic		eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	é
⊗Bowmanville	7,203	2,402	120,172	12,415,987	2,232	464	0.97
Bracebridge	2,821	1,173	66,597	4,823,035	942	427	1.38
♦Bradford	2,298	795	43,579	3,795,375	695	455	1.15
Braeside	559	159	7,536	462,831	148	261	1.63
♦ Brampton	15,241	4,910	261,358	25,973,266	4,577	473	1.01
Brantford	53,201	16,738	863,744	76,704,734	14,896	429	1.13
♦ Brantford Twp	7,247	2,074	222,614	14,020,431	1,934	604	1.59
♦ Brechin	259	95	3,446	295,308	81	304	1.17
♦ Bridgeport	1,617	441	29,371	2,397,107	415	481	1.23
⊕ Brigden	518	221	5,165	340,259	188	151	1.52
♦Brighton	2,260	972	43,728	4,008,161	890	375	1.09
Brockville	16,622	5,488	268,052	26,203,666	4,770	458	1.02
Brussels	845	386	16,518	1,378,456	299	384	1.20
♦Burford	1,030	414	28,172	2,050,346	373	458	1.37
Burgessville	243	99	5,423	432,501	78	462	1.25
♦Burk's Falls	863	333	15,865	1,116.907	291	320	1.42
♦ Burlington	42,511	13,086	1,184,640	84,709,993	12,437	568	1.40
♦ Cache Bay	845	202	7,961	407,765	195	174	1.95
Caledonia	2,197	774	27,472	2,038,985	633	268	1.35
Campbellford (6 months'operation).	3,393	1,258	29,677	2,908,474	1,137	426	1.02
Campbellville	351	88	6,592	486,788	83	489	1.35
Cannington	1,056	441	19,923	1,640,594	361	379	1.21
Capreol	2,563	952	66,850	4,582,199	855	447	1.46
♦Cardinal	2,047	643	35,021	3,179,341	610	(437)	1.10
*Carleton Place	4,684	1,669	95,112	7,430,806	1,549	400	1.28
♦Casselman	1,269	370	20,516	1,208,486	349	289	1.70
♦ Cayuga	889	374	12,771	927,504	330	234	1.38
◆Chalk River	1,045	270	13,749	1,199,234	251	398	1.15
Chapleau Twp	3,773	976	83,735	1,564,946	854	153	5.35
Chatham	28,439	9,458	397,560	22,024,564	8,027	229	1.81
♦Chatsworth	394	167	7,828	636,030	146	363	1.23
Chesley,	1,664	707	30,191	2,649,131	584	378	1.14
Chesterville	1,253	440	19,502	1,609,848	353	380	1.21
Chippawa	2,744	974	46,946	3,424,013	888	321	1.37
♦ Clifford	534	217	12,816	938,999	195	401	1.36
♦Clinton	2,980	1,187	70,195	5,680,755	1,061	(449)	1.24
†Cobalt	2,116	691	40,904	2,564,554	572	374	1.59
♦Cobden	876	373	13,282	1,642,053	341	401	0.81
Cobourg	. 9,338	3,286	196,295	16,803,304	2,985	469	1.17
Cochrane	4,261	1,300	89,377	6,750,269	1.081	520	1.32

,										
(incl	Commercial uding flat-rate		aters)			Pow	ER SERVI	CE		
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	é	\$	kwh	No.	kw	kwh	é
35,846	2,851,591	132	1,800	1.26	84,544	9,346,226	38	2,897	20,496	0.90
45,624	3,106,838	210	1,233	1.47	13,341	771,043	21	521	3,060	1.73
19,641	1,249,318	72	1,446	1.57	23,429	1,992,225	28	636		1,18
1,125	50,580	9	468	2.22	31,831	2,425,558	2		101,065	1.31
93,393		216	2,398	1.50	134,575	12,344,249	117	4,507		1.09
,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-,0		,	,,				
345,100	27,524,336	1,545	1,485	1,25	859,553	95,147,804	297	30,566	26,697	0.90
38,939	2,116,480	101	1,746	1.84	93,260	5,969,938	39	2,790	12,756	1.56
2,490	136,332	13	874	1.83	620	26,842	1	26	2,237	2,31
7,415	495,648	20	2,065	1.50	2,817	184,700	6	86	2,565	1.53
4,559	270,410	25	901	1.69	3,944	152,690	8	145	1,591	2.58
15,437	994,803	70	1,184	1.55	7,445	561,219	12	288		1.33
114,325	8,778,722	622	1,176	1.30	282,400	34,654,072	96			0.81
9,424	517,246	78	553		7,433	419,090	9	178	3,880	1.77
8,313	474,396	34	1,163	1.75	5,419	302,715	7	160		1.79
2,205	99,954	18	463	2.21	1,729	32,400	3	64	900	5.34
							_		4 007	0.42
7,258			934		1,872		4	68		2.13
245,132			2,366				. 135	7,402		1.32 2.18
552			443	2.60	19,860		3	462		1.52
18,237	1		797	1.59			21	347	3,110	1.32
11,918	1,104,297	100	1,840	1.08	‡3,750	‡288,020	21	419	1,143	1.50
1,189	55,655	4	1,159	2.14	577	56,300	1	10		1.03
7,951		1	493	1.98	6,161	266,366	12	205	1,850	2.31
12,191			694	1.56	11,565	723,657	3	281		1,60
5,936		29	(913)	1.67	1,219					1.15
25,319	1,408,637	93	1,262	1.80	43,232	3,842,328	27	1,300	11,859	1.13
4,168	198,323	14	1,180	2.10	11,440	645,470	7	340	7,684	1.77
7,461			1,040		4,232		9	193	1,236	3.17
3,719			1,460		2,916	269,600	2	92	11,233	1.08
38,143			497			1	17	154	2,110	3.22
408,770	1	1 .	1,380			40,622,231	250	13,789	13,541	1.22
200,77	12,002,12	-,	_,							
3,832	223,715	20	932	1.71	990					
14,370	781,417	98	664	1.84	11,269					1.60
9,753	1		606	1.74			10			0.95
13,10			722	1.94		1				0.95
3,552			1,144	1.73	4,879	287,950	7	116	3,428	1.69
27,942	1,656,962	99	(1,303)	1.69	21,162	1,499,669				
24,950			775		8,543					1.06
3,118			799		3,492			1		1.58
70,80			1,791							
53,57			1,253	1.87	21,439	1,767,755	28	572	5,261	1.21
00,07		1			1	1		1	1	

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

			(in	Domestic		eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus-	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
Colborne	1,256	559	26,207	2,149,262	460	389	1.22
Coldwater	748	259	12,624	1,047,665	208	420	1.20
Collingwood	8,302	3,031	140,118	11,737,997	2,589	378	1.19
♦Comber	596	237	7,567	459,710	205	187	1.65
◆Coniston	2,568	633	43,539	3,196,982	615	433	1.36
Cookstown	673	248	11,862	918,210	210	364	1.29
♦Cottam	630	237	8,630	627,200	214	244	1.38
◆Courtright	551	194	5,623	437,034	181	201	1.29
Creemore	870	358	15,982	1,381,348	301	382	1.16
♦ Dashwood	413	179	10,843	681,911	169	336	1.59
♦Deep River	4,789	1.320	109,712	10.058,721	1.208	694	1.09
Delaware	411	136	9,906	686.184	118	485	1.44
♦Delhi	3,317	1.307	54,097	4,676,938	1.147	340	1.16
♦Deseronto	1,819	633	28,037	2,498,460	589	353	1.12
◆ Dorchester	865	325	13,878	1,096,622	309	296	1.27
♦Drayton	616	259	13,621	874,181	236	309	1.56
♦Dresden	2,174	880	29,482	1.825,950	797	191	1.61
♦Drumbo	375	166	8,301	677,596	155	(374)	1.23
Dryden	5,475	1,642	121,371	9,332,185	1,424	546	1.30
♦ Dublin	271	110	5,257	450,708	95	395	1.17
♦Dundalk	854	414	17,503	1,245,675	365	284	1.41
Dundas	12,626	3,455	190,713	15,639,348	3,016	432	1.22
Dunnville	5,212	1,903	63,170	3,831,904	1,573	203	1.65
Durham	2,075	808	35,698	2,895,324	661	365	1,23
♦ Dutton	777	346	11,226	786,294	318	206	1.43
East York Twp	67,262	22,107	1,190,637	115,520,123	21,164	455	1.03
Eganville	1,549	559	25,699	1,592,486	459	289	1.61
†Elk Lake Townsite	§475	187	8,179	571,340	136	350	1.43
♦Elmira	2,939	1,128	69,051	5,813,196	1,033	469	1.19
♠Elmvale	925	379	17,928	1,569,558	340	385	1.14
&Elmwood	§450	137	4,270	326,480	125	218	1.31
Elora	1,479	543	31,294	2,060,144	462	372	1.52
Embro	562	228	12,636	1,028,872	180	476	1.23
†Englehart	1,650	585	39,938	2,401,961	485	413	1.66
♦ Erieau	462	334	12,050	900,185	294	255	1.34
& Erie Beach	*132	138	4,563	142,850	132	90	3.19
4 Erin	1,005	402	21,001	1,616,559	366	368	1.30
Essex	3,442	1,195	42,462	2,893,520	981	246	1.47
Etobicoke Twp. (including	121.000	46 746	2 40 5 00 5	200 666 25	44.446		4.44
Thistletown)	134,260	46,512	3,186,882	289,666,350	44,112	547	1.10
Exeter	2,888	1,194	69,800	5,241,032	986	443	1.33

(incl	Commercial uding flat-rate					Pow	ER SERVIC	E		
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	é	\$	kwh	No.	kw	kwh	é
13,853	676,742	90	627	2.05	4,558	310,353	9	118	2,874	1.47
6,479	365,203	47	648	1.77	9,477	572,348	4	259	11,924	1.66
76,126	4,738,556	379	1,042	1.61	90,384	8,359,180	63	3,261	11,057	1.08
4,556	239,675	24	832	1.90	6,115	244,282	8	222	2,545	2.50
5,530	275,160	16	1,433	2.01	175	12,580	2	6	524	1.39
3,815	140,445	34	344	2.72	2,516	171,560	4	89	3,574	1.47
2,902		16		2.03	3,627	104,566	7	177	1,245	
1,308		11		1.30	675	72,994	2	18		0.93
5,732		52	483	1.90	2,019	90,400	5	89		
1,209		6		2.04	3,103	107,980	4	117		2.87
-,					,					
40,671	2,748,253	104	2,202	1.48	6,908	743,843	8	168	7,748	0.93
3,779		18	1	2.38						
38,336	1	123	1	1.64	37,448	2,469,246	37	1,261	5,561	1.52
5,954				1.53	14,673		16	578		
1,944				1	2,518		3	86		
1,944	104,200	15	000	1,00	2,510	124,500		00	0,100	2.02
2,359	106,929	19	469	2.21	2,122	83,280	4	73	1,735	2.55
22,254					33,395		24	996		
1,484				1.89	1,648		3	70		
86,040					7,457	378,370	20	238	- /	
2,876					3,188	132,000		78		
2,870	109,400	13	1,213	1.52	3,100	132,000	-	,,,	3,500	2.12
7,707	366,035	37	824	2.11	5,712	279,205	12	216	1,939	2.05
					86,565		89	3,119		
84,394						1	38	2,291		
59,699				1	29.524			933		
19,031								235		
3,136	146,510	15	814	2.14	0,440	303,802	13	233	3,230	1.20
045 500	15.704.777	724	1 707	1.38	332,732	37,382,603	207	10,569	15,049	0.89
217,782		1			6,749			186		
18,248							5	278	1	
6,282							31	2,103		
24,557		1						56		
6,634	424,246	32	1,105	1,56	, 1,030	120,790	,		1,507	1.27
4.00	76.000	10	636	1.60	2,285	90,400	2	86	3,767	2.53
1,221								199		
10,318								111		
3,192								197		
20,382							7	228		
6,253	375,650	33	949	1.66	7,805	333,333	· '	220	3,794	2.33
80	17 170		238	3.09						
53:					1,468	86,530	5	49	1,442	1.70
5,92								837		
34,78	8 2,079,300	182	952	1.07	25,054	1,105,752	32	037	2,0.1	1
004 50	2 57 400 700	**1.61	2,966	1.45	1.530,075	180,464,023	785	49,295	19,158	0.85
831,08										
31,34	1 1,760,007	7 17	7 829	1.78	22,384	1.200.210	3.1		3,440	

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

				Domestic	SERVICE		
			(in	cluding flat-rat	e water-h	eaters)	
				1			Δ
						on	Av- erage
Municipality						nthly sumption customer	cost
	Popula-	Total	D	C	Cus-	nthl num	per
	tion	customers	Revenue	Consumption	tomers	Monthly consumption per customer	kwh
						1 0 11	
	No.	No.	\$	kwh	No.	kwh	¢
Fergus	3,861	1,338	87,274	6,379,657	1,158	459	1.37
♦Finch	411	178	7,447	689,132	164	350	1.08
♦Flesherton	487	248	7,973	835,279	221	315	0.95
Fonthill	2,170	750	47,589	3,765,825	665 805	472	1.26
◆Forest	2,056	871	44,969	4,068,707	803	421	1.11
♦Forest Hill	19,888	7,307	544,583	49,632,760	6,917		1.10
Fort William	42,900	13,464	739,932	93,956,809	11,744	667	0.79
◆Frankford	1,560	563	26,323	2,314,503	537	(362)	1.14
Galt	26,292	8,615	472,137	39,722,672	7,612	435	1.19
♦Georgetown	9,330	3,224	207,990	15,781,924	3,006	(440)	1.32
Geraldton	3,404	1,035	67,133	3,848,991	952	(353)	1.74
♦ Glencoe	1,118	487	12,979	1,032,710	423	203	1.26
♦Goderich	6,119	2,391	132,244	10,686,110	2,193	406	1.24
♦†Gogama	500	126	8,626	262,342	107	204	3.29
Grand Bend	*846	816	37,049	1,800,210	701	214	2.06
Grand Valley	651	315	13,871	1,005,990	254	330	1.38
Granton	306	122	5,787	344,193	99	290	1.68
♦Gravenhurst	3,133	1,306	53,263	5,815,918	1,175	412	0.92
Grimsby	4,725	1,660	70,766	6,117,220	1,405	363	1.16
	37,123	11,733	692,259	62,950,394	10,629	494	1.10
Hagersville	2,146	753	26,416	1,987,602	582	285	1.33
†Haileybury	2,586	851	52,286	3,979,289	688	482	1.31
Hamilton	255,833	76,274	3,845,815	331,314,240	66,846	413	1.16
Hanover	4,282	1,582	73,061	6,914,283	1,354	426	1.06
♦ Harriston	1,639	660	33,119	2,608,913	597	364	1.27
⊕ Harrow	1,837	693	39,463	3,254,129	600	452	1,21
Hastings	896	435	14,243	959,089	360	222	1.49
♦ Havelock	1,288	441	20,389	1,435,983	415	(291)	1.42
♦ Hawkesbury	8,483	2,176	118,833	8,265,637	2,046	337	1.44
♦ Hearst	2,110	601	50,690	2,756,745	555	414	1.84
Hensall	906	357	17,042	1,454,465	275	441	1.17
♦†Hepworth	354	125	4,564	255,210	110	232	1.79
Hespeler	4,304	1,397	67,807	5,260,538	1,225	358	1.29
Highgate	391	164	3,910	260,140	126	172	1.50
Holstein	171	94	3,261	257,190	76	282	1.27
†Hornepayne	1,400	459	36,312	1,192,627	410	242	3.04
♦†Hudson Townsite	500§	207	7,772	367,393	190	(169)	2.12
Huntsville	3,241	1,206	61,242	5,374,844	970	462	1.14
†Ignace (7 months' operation)	710	218	8,983	267,594	185	207	3.36
Ingersoll	7,050	2,328	114,121	7,668,272	2,028	315	1.49

1.40											
\$ kwh No. kwh \$	(incl			eaters)			Pow	ER SERVIC	E		
31,454	Revenue	Consumption		Monthly consumption per customer	erage cost per	Revenue	Consumption		Average of customers' monthly loads billed	Monthly consumption per customer	erage cost per
31,454	¢	lewh .	No	kwh	4	s	kwh	No.	kw	kwh	é
1,471											
1.40											1.89
12,205 650,579 74 733 1.88 3.90 175,705 11 113 1.332 2.04 15,276 996,522 45 1.845 1.53 10,291 926,029 21 355 3,675 1.11 113 3.332 2.04 1.52 1.52 1.00 996,522 45 1.845 1.53 10,291 926,029 21 355 3,675 1.11 1.13 1.332 2.04 1.52 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0											
15,276											
16,696											1.11
100,050 34,762,237 1,492 1,942 1,942 1,942 1,942 1,945 134,231 5 1,00 2,237 1,455 1,415 1,415 1,415 1,425 1,415	13,270	990,522	10	1,010	1.00	20,27	,,,,,				
352,667 34,762,237 1,492 1,942 1,01 486,396 54,997,638 228 20,503 20,101 0.88 3,701 222,261 21 (726) 1,67 1,945 134,231 5 100 2,237 1,455 1,446 486,383 3,016,360 179 (1,299) 1.80 111,995 11,696,160 39 3,071 24,992 0.96 12,520 796,798 47 1,413 1.57 8,292 353,667 17 367 1,734 2.34 42,566 2,218,626 137 1,350 1.92 121,251 8,707,352 61 3,318 11,895 1,33 21,969 902,083 115 654 2,44 .	160 696	11.315.000	370		1,42	21,204	1,757,280	20	767		1.21
3,701 222,261 21 (726) 1.67 1.945 134,231 5 100 2,237 1.45 181,044 10.428,741 797 1.090 1.74 471,496 48,006,315 206 15,587 19,420 0.98 47 1.433 3,016,360 179 (1.299) 1.80 111,995 11,696,160 39 3,071 24,992 0.96 42,902 1,931,125 69 (1.443) 2.22 2.029 64,529 14 73 367 1,734 2.34 42,566 2,218,626 137 1,350 1.92 121,251 8,707,352 61 3,318 11,895 1.39 4,073 127,030 17 623 3.21 4,188 225,290 2 58 9,387 1.85 1,39 1,296 902,083 115 654 2.44											0.88
181.044 10.428,741 797 1.090 1.74 471,496 48,006,315 206 15,587 19,420 0.98 54,383 3.016,360 179 (1.299) 1.80 111,995 11,696,160 39 3.071 24,992 0.96 6.924,992 12,550 796,798 47 1,413 1.57 8.292 353,667 17 367 1,734 2.34 42,566 2,218,626 137 1,357 1.92 121,251 8,707,352 61 3,318 11,895 1.39 4.073 127,030 17 623 3.21 4,188 225,290 2 58 9,387 1.86 21,069 902,083 115 654 2.44											1.45
54,383 3,010,360 179 (1,299) 1.80 111,995 11,696,160 39 3,071 24,992 0.96 42,902 1,031,125 69 (1,443) 2,22 2,029 64,529 14 73 384 3,14 12,520 796,798 47 1,413 1,57 8,292 353,667 17 367 1,734 2,34 42,566 2,218,626 137 1,350 1,92 121,251 8,707,352 61 3,318 11,895 1,388 11,895 1,338 11,895 1,399 2,589 9,387 1,862 1,418 225,290 2 58 9,387 1,862 1,414 30,497 30,37,04 28 1,189 9,040 1 8 242 6.88 26,723 1,314 10 30 1,682 1,14 30,497 30,37,04 28 1,189 9,040 1.0 1,0 1,14 4,04 1,0 2,444 2,444 2,444 2,444								206	15,587	19,420	0.98
42,902 1,931,125 69 (1,443) 2.22 2,029 64,529 14 73 384 3.14 12,520 796,798 47 1,413 1.57 8,292 353,667 17 367 1,734 2.34 42,566 2,218,626 137 1,350 1.92 121,251 8,707,352 61 3,318 11,895 1.33 21,969 902,083 115 654 2.44								39	3,071	24,992	0.96
12,520	34,303	0,010,000	1	(2,200)							
12,520	42 902	1 931.125	69	(1,443)	2.22	2,029	64,529	14	73	384	
42,566 2,218,626 137 1,350 1,92 121,251 8,707,352 61 3,318 11,895 1,39 21,969 902,083 115 654 2,44 225,290 2 58 9,387 1,86 5,895 274,210 53 431 2,15 4,523 232,313 8 154 2,420 1.95 1,732 60,550 22 229 2,86 200 2,900 1 8 242 6.89 261,141 2,301,416 103 1,862 1,14 30,497 3,037,304 28 1,189 9,040 1,00 46,832 3,033,565 223 1,134 1,54 27,449 2,484,777 32 874 6,471 1,10 267,288 19,355,299 959 1,682 1,38 596,288 69,922,820 145 18,710 40,186 0.85 26,723 1,573,990 147 892 1,70 42,173 <				(-, ,			353,667	17	367	1,734	2.34
4,073 127,030 17 623 3.21 4,188 225,290 2 58 9,387 1.86 21,969 902,083 115 654 2.44			1	1			8,707,352	61	3,318	11,895	1.39
21,969 902,083 115 654 2.44 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>225,290</td><td>2</td><td>58</td><td>9,387</td><td>1.86</td></td<>							225,290	2	58	9,387	1.86
5,895 274,210 53 431 2.15 4,523 232,313 8 154 2,420 1,952 26,141 2,301,416 103 1,862 1,14 30,497 3,037,304 28 1,189 9,040 1,00 46,832 3,033,565 223 1,134 1,54 27,449 2,484,777 32 874 6,471 1,10 26,723 1,573,990 147 892 1,70 42,173 2,844,557 24 1,480 9,877 1,36 2,098,394 168,270,990 8,037 1,745 1,25 8,646,178 1,303,357,328 1,391 2,853,32 78,083 0,66 20,915 1,239,660 81 1,275 1,69 16,785 675,080 12 615 4,688 2,44 27,066 3,19,852 102 2,549 1,79 11,476 776,464 28 368 2,311 1,48 2,7066 1,314,393 37 2,960 1,68 <td></td>											
5,895 274,210 35 451 2.15 4,020 2.900 1 8 242 6.85 22 229 2.86 200 2,900 1 8 242 6.89 222 26,141 2,301,416 103 1,862 1.14 30,497 3,037,304 28 1,189 9,040 1.00 1.00 46,832 3,033,565 223 1,134 1.54 27,449 2,484,777 32 874 6,471 1.10 40,186 0.85 26,723 1,573,990 147 892 1,70 42,173 2,844,557 24 1,480 9,877 1.48 3,266 1,38 1,415,019 142 830 2,26 11,381 823,099 21 374 3,266 1.38 3,266 1,38 2,969 1,480 9,877 1.48 3,266 1,38 1,391 25,833 7,808 1,38 1,391 25,833 7,808 1,38 1,391 25,833 7,808 1,46 <	21,90	702,000									
1,732	5 80	5 274.210	53	431	2.15	4,523	232,313	8	154		
26,141 2,301,416 103 1,862 1,14 30,497 3,037,304 28 1,189 9,040 1.00 46,832 3,033,565 223 1,134 1,54 27,449 2,484,777 32 874 6,471 1,10 26,723 1,573,990 147 892 1,70 42,173 2,844,557 24 1,480 9,877 1,48 2,098,394 168,270,990 8,037 1,745 1,25 8,646,178 1,337,337,328 1,391 258,332 78,083 1,662 10,676 615,408 49 1,047 1,73 22,889 1,938,980 14 2,060 10,262 1,0676 1,239,660 81 1,275 1.69 16,785 675,080 12 615 4,688 2,44 7,068 419,813 23 (1,296) 1,68 1,605 138,283 3 62 3,841 1,14 2,706 1,314,393 37 2,960 2,06 4,53						200	2,900	1	8		
46,832 267,288 3,033,565 19,355,299 223 959 1,134 1,682 1.38 1,38 27,449 596,288 2,484,777 69,922,820 32 145 874 18,710 6,471 40,186 1.10 0.85 26,723 31,918 2,098,394 1,573,990 14,415,019 142 8,007 27,368 1,779,087 10,676 147 18,710 892 1,745 1,25 1,25 1,331 1,445 1,331 1,445 1,331 1,445 1,331 1,341 1,331 1,341 1		-			1	30,497	3,037,304	28	1,189		
267,288						27,449	2,484,777	32	874	6,471	1.10
26,723			1		1	1	69,922,820	145	18,710	40,186	0.85
26,723 1,573,990 147 892 1.70 42,118 2,098,394 1,415,019 142 830 2,26 11,381 823,099 21 374 3,266 1,386 2,268 11,381 1,303,357,328 1,391 258,332 78,083 0.66 0.66 1,779,087 187 793 1,54 55,331 5,049,125 41 2,060 10,262 1,16 1,16 1,275 1,69 16,785 675,080 12 615 4,688 2,49 1,15 2,288 1,593,980 14 630 11,542 1,18 20,915 1,239,660 81 1,275 1.69 16,785 675,080 12 615 4,688 2,49 8,421 404,583 69 489 2.08 3,596 152,288 6 113 2,115 2,33 55,786 3,119,852 102 2,549 1,79 11,476 776,464 28 368 2,311 1,46 2,702 <t< td=""><td>201,200</td><td>12,000,00</td><td></td><td>1</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></t<>	201,200	12,000,00		1		1					
31,918 1,415,019 142 830 2.26 11,381 823,099 21 374 3,260 1.58 2,098,394 1,68,270,990 8,037 1,745 1.25 8,646,178 1,303,357,328 1,391 258,332 78,083 0.66 27,368 1,779,087 187 793 1.54 55,331 5,049,125 41 2,000 10,262 1.16 20,915 1,239,660 81 1,275 1.69 16,785 675,080 12 615 4,688 2.49 3,421 404,583 69 489 2.08 3,596 152,288 6 113 2,115 2.33 55,786 3,119,852 102 2,549 1.79 11,476 776,464 28 368 2,311 1.48 2,706 1,314,393 37 2,960 2.06 4,530 215,835 9 73 1,998 2.16 22,007 1,214,892 15 774 2.33	26 723	1.573.990	147	892	1.70	42,173	2,844,557				
2,098,394 168,270,990 8,037 1,745 1.25 8,646,178 1,303,357,328 1,391 258,332 78,083 0.60 27,368 1,779,087 187 793 1.54 55,331 5,049,125 41 2,060 10,262 1.16 20,915 1,239,660 81 1,275 1.69 16,785 675,080 12 615 4,688 2.48 8,421 404,583 69 489 2.08 3,596 152,288 6 113 2,115 2.36 7,068 419,813 23 (1,296) 1.68 1,605 138,283 3 62 3,841 1.14 55,786 3,119,852 102 2,549 1.79 11,476 776,464 28 368 2,311 1.44 2,706 1,314,393 37 2,960 2.06 4,530 215,835 9 73 1,998 2.16 9,176 514,460 61 703 1.78 16,554<				830	2,26	11,381	823,099			1 ''	
27,368 10,676 1,779,087 615,408 187 49 793 1,047 1.54 1.73 55,331 22,889 5,049,125 1,938,980 41 41 2,060 2,080 10,262 11,542 1.16 1.18 20,915 8,421 1,239,660 404,583 81 69 489 1,275 2,08 1,69 3,596 16,785 152,288 6 113 3,2115 2,33 3 62 3,341 1,16 2,33 2,49 3,68 2,49 2,33 3 62 3,341 2,115 2,33 2,34 3,41 1,16 3,14,60 1,314,393 3 7,2960 2,06 2,06 4,530 215,835 9 73 1,998 2,16 2,16 9,176 2,702 116,092 1,248,92 15 774 2,895 1,214,892 135 750 135 750 1,81 135,831 135,831 15,204,165 162,880 37 4,288 6 113 2,262 2,49 1,033 37 4,288 34,244 5,262 2,49 1,033 4,288 34,244 1,049 162,880 6 113 4,867 1,26 2,262 2,49 2,49 2,197 2,49 3,179 2,87 3,145,718 2,08 2,09 2,764,466 28 8,389 2,764,466 2,89 8,190 2,58 8,228 1,03 1,00 2,00 2,58 8,20 8,00 1,00 2,00 2,58 8,389 2,764,466 2,764,466 2,89 8,20 8,00 2,58 8,5,85 8,00 2,58 8,00 1,00 2,00 2,58 8,00 1,00 2,00 2,58 8,00 1,00 2,00 2,58 8,00 2,58 8,5,85 8,00 1,00 2,00 2,58 8,00 2,58 8,00 1,00				1,745	1.25	8,646,178	1,303,357,328				
10,676 615,408 49 1,047 1.73 22,889 1,938,980 14 630 11,342 1.18 20,915 1,239,660 81 1,275 1.69 16,785 675,080 12 615 4,688 2.49 8,421 404,583 69 489 2.08 3,596 152,288 6 113 2,115 2.36 7,068 419,813 23 (1,296) 1.68 1,605 138,283 3 62 3,841 1.16 55,786 3,119,852 102 2,549 1.79 11,476 776,464 28 368 2,311 1.48 27,066 1,314,393 37 2,960 2.06 4,530 215,835 9 73 1,998 2.16 9,176 514,460 61 703 1.78 16,554 969,350 21 526 3,847 1.77 2,702 116,092 15 774 2.33 1.81 135,831	*			793	1.54	55,331	5,049,125				
20,915 1,239,660 81 1,275 1.69 16,785 675,080 12 615 4,688 2.44 8,421 404,583 69 489 2.08 3,596 152,288 6 113 2,115 2.36 7,068 419,813 23 (1,296) 1.68 1,605 138,283 3 62 3,841 1.16 55,786 3,119,852 102 2,549 1.79 11,476 776,464 28 368 2,311 1.48 27,066 1,314,393 37 2,960 2.06 4,530 215,835 9 73 1,998 2.16 9,176 514,460 61 703 1.78 16,554 969,350 21 526 3,847 1.71 2,702 116,092 15 774 2.33 1.81 135,831 15,204,165 37 4,288 34,244 0.89 2,895 120,550 32 314 2.40 4,049				1,047	1.73	22,889	1,938,980	14	630	11,542	1.18
20,915 1,239,660 81 1,275 1.69 10,785 31,596 152,288 6 113 2,115 2.36 7,068 419,813 23 (1,296) 1.68 1,605 138,283 3 62 3,841 1.16 55,786 3,119,852 102 2,549 1.79 11,476 776,464 28 368 2,311 1.48 27,066 1,314,393 37 2,960 2.06 4,530 215,835 9 73 1,998 2.16 9,176 514,460 61 703 1.78 16,554 969,350 21 526 3,847 1.71 2,702 116,092 15 774 2.33 1.81 135,831 15,204,165 37 4,288 34,244 0.89 2,895 120,550 32 314 2.40 4,049 162,880 6 113 2,262 2.44 1,033 50,960 17 250 2.03 729 58,400 1 13 4,867 1.23 23,233 616,450 48 1,070 3.77 11,105 917,600 1 151 76,467 1.22 5,513 267,3	10,37										1 0.40
8,421 404,583 69 489 2.08 3,596 152,288 6 113 2,115 2.36 7,068 419,813 23 (1,296) 1.68 1,605 138,283 3 62 3,841 1.16 55,786 3,119,852 102 2,549 1.79 11,476 776,464 28 368 2,311 1.44 27,066 1,314,393 37 2,960 2.06 4,530 215,835 9 73 1,998 2.16 9,176 514,460 61 703 1.78 16,554 969,350 21 526 3,847 1.77 22,007 1,214,892 135 750 1.81 135,831 15,204,165 37 4,288 34,244 0.88 2,895 120,550 32 314 2,40 4,049 162,880 6 113 2,262 2.44 1,033 50,960 17 250 2.03 729 58,400 1 13 4,867 1.23 23,233 616,450 48 1,070 3.77 11,105 917,600 1 151 76,467 1.23 5,513 267,377 13 (1,036)<	20.915	1,239,660	81	1,275							
7,068 419,813 23 (1,296) 1.68 1,605 138,283 3 62 3,841 1.16 55,786 3,119,852 102 2,549 1.79 11,476 776,464 28 368 2,311 1.46 27,066 1,314,393 37 2,960 2.06 4,530 215,835 9 73 1,998 2.16 9,176 514,460 61 703 1.78 16,554 969,350 21 526 3,847 1.77 2,702 116,092 15 774 2,33 1.81 135,831 15,204,165 37 4,288 34,244 0.89 2,895 120,550 32 314 2,40 4,049 162,880 6 113 2,262 2,49 1,033 50,960 17 250 2.03 729 58,400 1 13 4,867 1.23 23,233 616,450 48 1,070 3.77 11,105 9			1	489	2.08	1			1		
55,786 3,119,852 102 2,549 1.79 11,476 776,464 28 368 2,311 1.482 27,066 1,314,393 37 2,960 2.06 4,530 215,835 9 73 1,998 2.16 9,176 514,460 61 703 1.78 16,554 969,350 21 526 3,847 1.71 2,702 116,092 15 774 2.33 37 4,288 34,244 0.89 2,895 120,550 32 314 2.40 4,049 162,880 6 113 2,262 2.44 1,033 50,960 17 250 2.03 729 58,400 1 13 4,867 1.23 23,233 616,450 48 1,070 3.77 11,105 917,600 1 151 76,467 1.23 5,513 267,377 13 (1,036) 2.06 4,378 152,600 4		1		(1,296)							
27,066 1,314,393 37 2,960 2.06 4,530 215,835 9 73 1,988 2.15 9,176 514,460 61 703 1,78 16,554 969,350 21 526 3,847 1.71 2,702 116,092 15 774 2.33 37 4,288 34,244 0.89 22,007 1,214,892 135 750 1.81 135,831 15,204,165 37 4,288 34,244 0.89 2,895 120,550 32 314 2.40 4,049 162,880 6 113 2,262 2.44 1,033 50,960 17 250 2.03 729 58,400 1 13 4,867 1.23 23,233 616,450 48 1,070 3.77 11,105 917,600 1 151 76,467 1.23 5,513 267,377 13 (1,036) 2.06 4,378 152,600 4 95 3,179 2.83 50,215 3,145,718 208 1,260 1.60 28,389 2,764,466 28 985 8,228 1.03 8,104 221,917 31 1,023 <td></td> <td></td> <td>102</td> <td>2,549</td> <td>1.79</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			102	2,549	1.79						
9,176 514,460 61 703 1,78 16,554 969,350 21 526 3,847 1.71 2,702 116,092 15 774 2,33			37	2,960	2,06	4,530	215,835	5 9	73	1,998	2,10
9,176 514,460 61 703 1.75 10,334 30,360 2,702 116,092 15 774 2.33 15,204,165 37 4,288 34,244 0.89 2,895 120,550 32 314 2.40 4,049 162,880 6 113 2,262 2.44 1,033 50,960 17 250 2.03 729 58,400 1 13 4,867 1.23 23,233 616,450 48 1,070 3.77 11,105 917,600 1 151 76,467 1.23 5,513 267,377 13 (1,036) 2.06 4,378 152,600 4 95 3,179 2.83 50,215 3,145,718 208 1,260 1.60 28,389 2,764,466 28 985 8,228 1.03 8 104 221,917 31 1,023 3.65 2,099 81,900 2 58,585 2.50 2.06 1.00								0.1	534	2 9 4 7	1 71
2,702 116,092 15 774 2.33 15,204,165 37 4,288 34,244 0.89 2,895 120,550 32 314 2.40 4,049 162,880 6 113 2,262 2.49 1,033 50,960 17 250 2.03 729 58,400 1 13 4,867 1.23 23,233 616,450 48 1,070 3.77 11,105 917,600 1 151 76,467 1.2 5,513 267,377 13 (1,036) 2.06 4,378 152,600 4 95 3,179 2.8 50,215 3,145,718 208 1,260 1,60 28,389 2,764,466 28 985 8,228 1.03 8 104 221,917 31 1,023 3.65 2,099 81,900 2 58 5,850 2.56	9,170	514,460			1	1	969,350	21	520		
22,007 1,214,892 135 750 1.81 135,831 15,204,165 37 4,289 37,228 37,241 2,895 120,550 32 314 2.40 4,049 162,880 6 113 2,262 2.44 1,033 50,960 17 250 2.03 729 58,400 1 13 4,867 1.23 23,233 616,450 48 1,070 3.77 11,105 917,600 1 151 76,467 1.2 5,513 267,377 13 (1,036) 2.06 4,378 152,600 4 95 3,179 2.8° 50,215 3,145,718 208 1,260 1.60 28,389 2,764,466 28 985 8,228 1.03 8 104 221,917 31 1,023 3.65 2,099 81,900 2 58 5,850 2.5°				1					4.000		
2,895			2 135								
1,033			32			1					
23,233 616,450 48 1,070 3.77 11,105 97,7600 4 95 3,179 2.83 5,513 267,377 13 (1,036) 2.06 4,378 152,600 4 95 3,179 2.83 5,0215 3,145,718 208 1,260 1.60 28,389 2,764,466 28 985 8,228 1.03 1,023				250	2.03	729	58,400	, 1	13	4,007	1,40
5,513 267,377 13 (1,036) 2,06 4,378 152,600 4 95 3,179 2.8° 50,215 3,145,718 208 1,260 1.60 28,389 2,764,466 28 985 8,228 1.03 8,104 221,917 31 1,023 3.65 2,099 81,900 2 58 5,850 2.56	00.00	2 616 45	15	1 070	3.77	11,105	917,600) 1			
50,215 3,145,718 208 1,260 1.60 28,389 2,764,466 28 985 8,228 1.00 28,104 221,917 31 1,023 3.65 2,099 81,900 2 58 5,850 2.56			-								
50,215 8,104 221,917 31 1,023 3.65 2,099 81,900 2 58 5,850 2,099 2,099 81,900 2 4,443					1	1					
			- 1				1				
124 852 12 316.005 49 4,128 20,940 1.00		-						5 49	4,128	20,946	1.09
57,609 3,269,744 251 1,080 1.76 134,832 12,310,000	57,60	3,209,74	23.	1,000	1					1	1

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

		(including flat-rate water-heaters)						
Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh		
No.	No.	\$	kwh	No.	kwh	é		
1,010	377	24,152	1,924,767	317	506	1.2.		
741	269	7,218	568,481	210	226	1.2		
§140		2,265	109,520	50	(196)	2.0		
	-,	,	9,988,563	1,758	473	1.1		
§500	186	11,101	854,586	171	416	1.3		
	1	35,421	3,354,349	684	409	1.0		
2,701	_,			1,064	355	1.0		
§500				149	343	1.3		
			1 ' '			0.9		
3,016	1,247	43,136	3,885,210	1,096	295	1.1		
		4,438	258,780	75	288	1.7		
			,,	4,763	384	1.3		
	' 1			20,153	502	1.1		
					444			
1,794	580	39,717	2,863,144	542	440	1.3		
			,	304	229	1.0		
					(/	1.1		
,						1.3		
		,				1.7		
		120,012	10,570,071	3,000	201	1.2		
			, ,	3,411	422	1.1		
	_,			1,313	409	1.1		
	1,							
			1					
		210,100	15,205,500	3,721	410	1.1		
,				324	232			
		,						
			1					
						1.0		
2,202	500	20,307	2,203,214	321	302	1.0		
				95	(190)	2.1		
			1			1.1		
			1			1.1		
		,				1.2		
4								
	1		1					
			1					
			,					
						2.0		
	No. 1,010 741 \$140 6,039 \$500 1,865 2,701 \$500 47,611 3,016 \$18,264 69,622 2,031 1,794 880 626 1,973 440 8,453 10,404 3,613 100,002 40,718 10,728 1,134 930 1,012 538 1,469 253 1,044 4,213 1,370 436 1,270 888 895 3,200	No. No. 1,010 377 741 269 §140 54 6,039 1,977 §500 186 1,865 752 2,701 1,177 §500 172 47,611 15,137 3,016 1,247 126 96 §18,264 5,673 69,622 22,229 2,031 713 1,794 580 880 323 626 196 1,973 567 440 1,53 8,453 3,273 10,404 3,695 3,613 1,459 100,002 32,319 40,718 958 10,728 4,108 1,134 930 356 1,012 453 585 1,469 585 1,469 585 1,044 421	No. No. \$ 1,010 377 24,152 741 269 7,218 §140 54 2,265 6,039 1,977 117,047 §500 186 11,101 1,865 752 35,421 2,701 1,177 48,136 \$500 172 8,257 47,611 15,137 814,512 3,016 1,247 43,136 126 96 4,438 §18,264 5,673 304,969 69,622 22,229 1,398,760 2,031 713 32,605 1,973 567 34,239 440 153 4,733 440 153 4,733 4,53 3,273 128,312 10,404 3,695 190,347 3,613 1,459 75,034 40,718 958 62,205 40,718 958 62,205 10,002	No. No. \$ kwh 1,010 377 24,152 1,924,767 741 269 7,218 568,481 §140 54 2,265 109,520 6,039 1,977 117,047 9,988,563 §500 186 11,101 854,586 1,865 752 35,421 3,354,349 2,701 1,177 48,136 4,527,890 §500 172 8,257 612,590 47,611 15,137 814,512 88,526,292 3,016 1,247 43,136 3,885,210 126 96 4,438 258,780 §18,264 5,673 304,969 21,930,453 69,622 22,229 1,398,760 121,493,197 2,031 713 32,605 3,194,468 1,794 580 39,717 2,863,144 880 323 9,013 835,736 626 196 7,765 688,823	No. No. \$ kwh No. 1,010 377 24,152 1,924,767 317 741 269 7,218 568,481 210 \$140 54 2,265 109,520 50 6,039 1,977 117,047 9,988,563 1,758 \$500 186 11,101 854,586 171 1,865 752 35,421 3,354,349 684 2,701 1,177 48,136 4,527,890 1,064 \$500 172 8,257 612,590 149 47,611 15,137 814,512 38,526,292 12,875 3,016 1,247 43,136 3,885,210 1,096 126 96 4,438 258,780 75 \$18,264 5,673 304,969 21,930,453 4,763 1,794 580 39,717 2,863,144 542 880 323 9,013 835,736 304 6,9622	No.		

(incl	Commercial uding flat-rate		aters)			Powr	ER SERVICE	3		
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	é	\$	kwh	No.	kw	kwh	¢
14,305	824,097	53	1,296	1.74	5,459	420,026	7	160	5,000	1.30
4,936		51	511	1.58	5,091	243,780	8	172	2,539	2.09
1,941	88,728	3	(1,138)	2.19	841	37,500	1	17	3,125	2.24
64,077	3,873,842	187	1,726	1.65	7,738	402,839	32	370	1,049	1.92
3,361	153,168	14	912	2.19	699	30,502	1	15	2,542	2.29
									0.450	4 22
12,926			1,393	1.52	25,719		17	852	9,450	
20,056		90	1,113	1.67	38,234	3,082,721	23	1,100	11,169	1.24
4,706		1	824	2.07				12.012	15.000	0.06
652,458		1	2,235	1.20	407,825		235	13,213	15,066	0.96
26,444	1,672,902	117	1,192	1.58	25,943	1,684,627	34	972	4,129	1.54
	40.027	0.1	4.04	3,91						
1,878			191		64,708	4,951,141	114	1,760	3,619	1.31
164,781			1,183		1,381,991			38,833		
659,507			2,038 944				13	314	2,421	1.89
17,825			632		1,332		2	32	1,499	3.70
6,512	273,154	30	032	2.30	1,332	00,700				
1,829	124,740			1	1,902	183,880	2	57	7,662	1.03
4,322			1					24	4.050	0.96
10,870					1			31	4,850 3,178	
2,280				1	1			3,411	12,674	
67,82	4,345,770	186	1,947	1.56	124,030	12,014,702	19			
78,85	5.099,273	195	2,179	1.55	132,891	15,127,468				
33,70				1	41,518	2,851,181	. 35			
947,99				1.34	1,285,123	152,077,063		41,925		
6,10			1,782	1.68	9,175			1	1	1
54,36			2,174	1.48	78,442	7,320,243	46	2,590	13,261	1.07
4,34	6 273,939	9 16	1,427	1.59	1,340	40,844	. 3	63	1,135	3.30
5,68) 6			
9,51		1			1		12			
2,58										1
11,83							10	182	2,169	1.79
11,00	021,01									
1.82	3 57,36	6 9	(341)	3.28					4 400	1.77
12,51			1 75							
29,47		7 8:								4
16,04			7 919		1					
2,86			1 44	2.58	78	8 15,59	5 1	3;	1,300	
4,62	242,80	5 1:	1,68		1	9 115,32	0 5	3	1,922	2 1.59
6,49								7	4,230	
11,59							1			
36,02		2 10			4					
5,51		0 2	7 93	6 1.8	2 3,71	4 130,35	9	12.	2,71	2,00

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

			Domestic service (including flat-rate water-heaters)						
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus-	Monthly consumption per customer	Av- erage cost per kwh		
	No.	No.	\$	kwh	No.	kwh	é		
McGarry	2,969	481	35,632	2,872,471	429	558	1.24		
Meaford	3,660	1,499	65,953	5,814,526	1,270	382	1.13		
Merlin	537	250	7,181	523,199	184	237	1.37		
♠Merrickville	885	367	14,935	1,109,240	341	(283)	1.35		
Merritton	6,236	1,920	101,740	7,969,166	1,732	383	1.28		
Midland	8,394	2,810	125,082	13,916,031	2,608	445	0.90		
Mildmay	847	314	12,582	1,152,538	240	400	1.09		
♦ Millbrook	842	331	16,415	1,271,885	316	(340)	1.29		
♦Milton	5,148	1,659	110,750	9,018,689	1,501	501	1.23		
♦ Milverton	1,083	468	25,112	1,654,380	406	(343)	1.52		
♠ Mimico	15,516	6,063	273,613	28,430,710	5,830	406	0.96		
	2,147	891	50,318	3,835,925	799	400	1.31		
	318	128	4,733	404,440	112	301	1.17		
♦ Morrisburg	1,905	743	.37,907	3,440,959	660	(460)	1.10		
Mount Brydges ■ Mount Brydges	902	355	12,878	812,279	330	205	1.59		
Mount Forest	2,514	974	48,330	4,273,880	878	406	1.13		
♦Napanee	4,480	1,670	84,477	8,080,513	1,503	448	1.05		
♦Neustadt	492	204	6,249	632,520	186	283	0.99		
♦Newboro	296	140	5,192	258,366	129	(174)	2.01		
Newburgh	557	185	9,924	631,236	157	335	1.57		
Newbury	335	131	4,656	291,020	109	222	1.60		
Newcastle	1,132	460	19,313	1,751,266	379	385	1.10		
♦New Hamburg	2,063	686	39,677	3,311,905	626	(449)	1.20		
♦†New Liskeard	4,616	1,554	103,134	7,900,602	1,386	475	1.31		
Newmarket	7,739	2,629	149,663	14,048,270	2,269	516	1.07		
♦New Toronto	11,532	3,988	214,496	19,599,006	3,688	443	1.09		
Niagara	2,658	1,060	67,007	5,655,326	. 922	511	1.18		
Niagara Falls	23,660	7,513	379,184	30,107,379	6,923	362	1.26		
♦Nipigon Twp	2,633	725	36,567	3,680,713	651	(480)	0.99		
North Bay	22,684	7,294	439,253	37,727,558	6,115	514	1.16		
North York Twp	224,959	74,924	4,809,050	446,522,972	68,461	544	1.08		
Norwich	1,706	682	35,845	- 2,724,889	566	401	1.32		
♦ Norwood	1,077	408	18,551	1,466,602	357	(371)	1.26		
Oakville	10,147	3,552	189,294	14,300,330	2,875	415	1.32		
♦Oil Springs	483	223	6,517	445,241	175	212	1.46		
Omemee	838	305	13,372	1,060,004	259	341	1.26		
♦Orangeville	4,610	1,652	103,165	8,395,928	1,493	469	1.23		
Orillia	14,282	5,334	247,401	25,239,717	4,545	463	0.98		
♦Orono	859	347	17,565	1,344,369	325	(350)	1.31		
♦Oshawa	57,683	18,541	907,640	106,603,761	16,785	529	0.85		

(incl	Commercial uding flat-rate					Pow	ER SERVIC	E		
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	é	\$	kwh	No.	kw	kwh	é
13,262	714,825	49	1,216	1.86	1,713		3	37		2.0
30,426	2,033,501	196	865	1.50	39,270		33	1,141	7,299	1.3
7,786	446,181	62	600	1.75	2,716		4	79	1,867	3.0
3,674	202,640	19	(512)	1.81	3,869		7	148	3,809	1.2
50,498	2,776,186	159	1,455	1.82	631,694	88,281,508	29	16,190	253,682	0.7
45,693	3.816.490	141	2,256	1.20	130,834	13,893,738	61	6,116	18,981	0.9
6,429	365,603	66	462	1.76	4,252	274,504	8	133	2,859	1.5
4,096	186,004	13	(912)	2.20	695	36,900	2	18	1,538	1.8
30,557	1,794,622	124	1,206	1.70	96,305	7,990,233	34	2,503	19,584	1.2
11,673	548,557	46	(914)	2.13	12,777	645,822	16	430	3,364	1.9
86,819	6,509,540	195	2,782	1,33	60,124	5,012,447	38	1,997	10,992	1.2
15,908	869,367	67	1,081	1.83	28,708	2,197,144	25	857	7,324	1.3
2,651	159,790	14	951	1.66	1,589	67,720	2	51	2,822	2.3
22,801	1,364,969	69	(1,083)	1,67	9,386	602,149	14	335	3,584	1.5
3,645	162,570	22	616	2.24	3,480	183,980	3	130	5,111	1.8
20,372	1,280,010	69	1,546	1.59	16,051	1,040,840	27	548	3,212	1.5
42,539	3,161,647	137	1,923	1.35	33,858	3,026,715	30	1,253	8,408	1.1
1,366	80,620	16	420	1.69	1,970	152,120	2	82	6,338	1.3
1,574	61,895	11	(322)	2.54						
3,643	143,990	24	500	2.53	3,268	159,000	4	97	3,313	2.0
1,459	78,966	21	313	1.85	264	4,950	1	13	413	5.3
12,959	792,288	71	930	1.64	10,277	838,637	10	282	6,989	1.
12,819	715,554	42	(1,104)	1.79	20,045	1,306,444	18	581	6,048	1
53,025	3,058,530	132	1,931	1.73	50,621	3,527,736	36	1,281	8,166	1.
99,180	6,397,086	305	1,748	1.55	65,427	5,247,072	55	2,125	7,950	1.
93,468	6,950,289	212	2,732	1.34	943,456		88		119,356	0.
24,095	1,372,480	124	922	1.76	5,941	336,633	14	198	2,004	1.
320,533	26,543,734	540	4,096	1.21	246,815	25,091,144	50	7,624	41,819	0.
22,504	1,907,001	64	(2,091)	1.18	12,433	1,575,178	10	380		0.
265,543	19,453,062	1,058	1,532	1.37	126,620	11,182,295	121	3,769	7,701	1.
2,039,205	130,922,471	5,423	2,012	1.56	1,477,129		1,040	48,315	11,594	1.
15,897	757,429	104	607	2.10	6,130		12	207	1,888	2.
9,116	415,393	46	(468)	2.19	4,979	200,135	5	168	3,336	2.
161,586	8,608,959	566	1,268	1.88	191,680		111	5,924	15,812	0.
1,455	64,391	14	383	2.26	7,090	663,331	34	160	1,626	1.0
4,831	201,443	41	409	2.40	3,734	256,150	5	85	4,269	1.
34,541	2,200,817	117	1,568	1.57	23,718		42	1,074	3,119	1.
156,277	12,104,978	652	1,547	1.29	297,285		137	11,673	18,101	1.
5,072	300,288	19	(1,065)	1.69	2,801	149,404	3	92	4,150	1. 0.
369,918	30,893,100	1,498	1,719	1.20	1,241,479	156,528,501	258	39,778	50,558	U.

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

			(inc	Domestic		eaters)	
$oldsymbol{ ext{M}}$ unicipality	Popula- tion	Total customers	. Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
♦Ottawa (including Eastview and	252 252	0.145	4 4 50 004	*** *** ***	tra man		0.77
Rockcliffe Park)	272,252 729	84,416 285	4,159,324	545,137,135 1,082,200	73,730 230	616 392	0.76
Otterville ♦Owen Sound	17.549	6.081	12,784 323,000	29,985,717	5,652	442	
Paisley	768	324	13,412	1,026,120	252	339	1.31
Palmerston	1,577	616	29,334	2,728,607	502	453	
Paris	5,759	1,952	97,646	7,401,164	1,693	364	1.32
♦Parkhill	1,115	497	25,344	1,874,338	443	353	1.35
Parry Sound	6,070	1,949	99,349	8,517,246	1,647	431	1.17
Penetanguishene	4,692	1,389	57,406	5,858,982	1,282	381	0.98
♦Perth	5,579	1,962	86,783	8,641,803	1,777	(408)	1.00
Peterborough	45,248	14,487	885,395	81,092,002	12,826		1.09
♦ Petrolia	3,649	1,287	44,979	2,764,477	1,082	213	1.63
Pickering	1,754	485	39,790		452		1.49
* Pickle Lake Landing Townsite	§175	97	5,279	282,228	93		1.87
♦ Picton	5,072	1,922	99,014	9,001,536	1,586	473	1.10
♦Plattsville	477	190	10,225	911,751	177	429	1.12
Point Edward	2,688		27,141	2,355,314	734	267	1.15
Port Arthur	41,761		703,373		11,699	596	
♦ Port Burwell	722		17,372	623,372	423	123	2.79
♦†Port Carling	*487	505	24,030	1,173,342	442	221	2.05
Port Colborne	14,936	4,672	182,912	13,569,477	4,074	278	1.35
Port Credit	6,445	2,670	144,779	12,901,565	2,324	463	1.12
♦Port Dalhousie	3,337		81,753		1,021	511	1.30
Port Dover	3,080		45,271	3,232,085	1,295	208	
Port Elgin	1,692	1,038	44,128	2,924,102	856	285	1.51
Port Hope	7,850		173,056		2,590	476	
Port McNicoll	1,010		16,879		461	241	1.27
Port Perry.	2,210 809		41,399 9,626		781 297	422 179	1.05 1.51
Port Stanley.	*1,530		51,223	637,370 3,403,256	1,085	261	1.51
*†Powassan	1,036	333	24.537	1,678,953	312	448	1.46
♦ Prescott	5,351	1,718	85,229	9,194,427	1,597	480	
♦ Preston	10,953	3,115	197,749		2,862	(473)	1.27
♦ Priceville	158	65	2,464	109,604	58	157	2.25
Princeton	439	169	8,159	701,117	131	446	1.16
Queenston	448		11,293		150		1.14
♦ Rainy River	1,283		39,574	1,293,100	419	257	3.06
* Red Page	2,169		61,403	3,433,587	964	(320)	1.79
Red RockRenfrew	1,614 8,406		23,013 151,098	2,421,457 12,179,017	303 2,415	(673)	0.95
V	0,400	2,003	131,098	12,179,017	2,415	(438)	1.24

(incl	Commercial uding flat-rate		aters)			Powr	ER SERVIC	E		
Revenue	Consumption		Monthly consumption per customer	Av- erage cost per	Revenue	Consumption	Cus-	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erag cost
			Mc cor per	kwh				Av ton loa	Mor cons	kwł
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
4,513,479	377,827,799	10,482	3,004	1.19	523,646	48,164,749	204	17,646	19,675	1.
4,783	251,406	47	446	1.90	2,405	93,485	8	81	974	2.
121,622	8,974,591	298	2,510	1.36	140,130	11,813,797	131	5,656	7,515	1.
7,389	377,500	64	492	1.96	3,363	206,236	8	96	2,148	1.
13,710	846,500	96	735	1.62	11,990	938,150	18	498	4,343	1.
31,117	2,121,373	221	800	1.47	54,148	4,542,979	38	2,126	9,963	1
12,103		41	1,264	1.95	10,151	518,935	13	326		1
57,433		278	955	1.80	16,222	1,322,799	24	569	4,593	
20,130	1,693,354	85	1,660	1.19	36,978	4,075,751	22	1,309	15,438	0
34,487	2,755,032	131	(1,583)	1.25	39,847	3,713,058	54	1,707	5,730	1
426,950	27,396,150	1,413	1,616	1,56	570,576	70,484,118	248	19,364	23,684	0
29,927		169	715	2.06	32,619	1,657,769	36	833	3,837	1
7,671		30	1,509	1.41	4,429	348,560	3	144	9,682	1
1,851		3	(487)	2.43	76	2,260	1	3	188	3
55,495		293	1,063	1.48	19,294	1,923,084	43	851	3,727	1
1,657	75,250	11	570	2,20	16,531	1,554,774	2	420	64,782	1
12,111			1,360	1.46	131,941	13,537,072	23	4,049	49,047	0
363,943			1,872	1.10	591,618	67,322,210	170	25,042	33,001	0
4,067			663	2.22	727	9,000	4	50		8
14,002	576,485	57	843	2.43	1,376	88,680	6	47	1,232	1
106,802	5,877,512	520	942	1.82	82,926	7,375,425	78	2,663		
75,874			1,307	1.65	310,493	44,795,322				
9,828			1,101	1.62	10,527			306		
26,252	1,639,606	194	704	1.60	44,108					
23,787	1,119,600	167	559	2.12	12,349	667,116	15	334	3,706	1
51,764	3,496,377	140	2,081	1.48	170,787	18,709,104				
1,583	, ,	1	683		28,443					
9,554	l l	36	1,589	1.39	4,725					
4,993	317,730	26	1,018	1.57	819				1	
11,27	626,199	42	1,242	1.80	8,312	345,730	17	364	1,695	2
8,15	386,435	15	2,147	2.11	1,158					
26,44		1	1,875	1.42	41,378					
56,89			(1,020)	1.81	235,216	18,952,439	105	7,593	15,042	
810									1 750	
2,90		35	355	1.95	1,513	63,015	3	5.5	1,750	2
6,00	363,140	16	1,891	1.65					2.502	
12,47		- (1,325	3.14						
40,14			(1,390)	2.21			1			
15,13			(3,877		1		1 .			
56,08			(1,153	1.42	79,886	6,796,453	65	2,925	8,713	"

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

			(in	Domestic cluding flat-rat		eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	é
♦ Richmond	1,030		18,362	1	298	420	1.22
♦Richmond Hill	15,032	4,628	335,179		4,415	482	1.31
Ridgetown	2,546	1,028	30,503	2,100,378	830	211	1.45
♦ Ripley	450	218	10,777	806,456	197	341	1.34
Riverside	16,716	5,212	269,804	18,950,841	5,073	311	1.42
♦Rockland	2,880		34,453	2,825,149	660	357	1.22
Rockwood	868		17,054		279	399	1.28
Rodney	1,025	442	11,816		347	225	1.26
• Rosseau	212	117	4,203		104	178	1.89
♦ Russell	562	203	8,803	858,947	186	385	1.02
St. Catharines	41,211	13,980	760,630	56,753,818	12,120	390	1.34
St. Clair Beach	1,371	422	29,367	1,883,065	405	387	1.56
St. George	711	286	9,529	972,231	258	(316)	0.98
St. Jacobs.	722	227	11,890		177	465	1.20
♦St. Mary's	4,349	1,622	98,083	8,113,789	1,481	457	1.21
St. Thomas	19,617	7,003	357,504		6,171	387	1.25
Sandwich East Twp	21,347	6,342	360,674	, , , , ,	6,099	221	2.23
Sandwich West Twp	26,297		540,154		7,261	340	1.82
♦Sarnia. ♦Scarborough Twp	47,119 184,654		676,689 4,002,121		13,948 58,416	322	1.26
	2.404	624					0.00
♦Schreiber Twp ♦Seaforth	2,104 2,228	634 867	34,123 40,188		595 774	554 396	0.86
Shelburne.	1,257	564	26,617		444	361	1.38
Simcoe	8,418		111,702		2,551	313	1.17
Sioux Lookout.	2,613	929	68,144		787	490	1.47
Smith's Falls	9,032	3,365	161,681	15,889,757	2,810	471	1.02
Smithville	835	374	12,652		276	263	1.45
Southampton	1,742	1,108	37,171	2,692,308	970	. 231	1.38
South Porcupine Townsite	§5,600	1,835	86,754	5,968,292	1,557	319	1.45
Springfield	524	179	7,850	647,600	151	357	1.21
Stamford Twp	29,077	8,798	555,521	43,875,596	8,147	449	1.27
Stayner	1,584	622	31,375	2,390,570	504	395	1.31
♦Stirling	1.312	518	25,577		470	(398)	1.15
Stoney Creek. Stouffville.	5,974 2,874	1,861 1,062	131,622 59,439		1,767 921	557 464	1.12 1.16
	,						
Stratford	20,189		420,948		6,130	493	1.16
Strathroy	4,833	1,756	81,883		1,473	438	1.06
Streetsville	4,823 6,281	1,425 1,579	94,664 91,584		1,270	449	1.38
Sudbury	76,782	15,877	91,384		1,472 14.045	374 490	1.39
	10,102	13,677	714,213	02,304,290	14,045	490	1.18

Commercial service (including flat-rate water-heaters)					Powi	er servici	E			
Revenue	Consumption	Cus-	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
s	kwh	No.	kwh	é	\$	kwh	No.	kw	kwh	é
6,285	366,810	11	2,779	1.71	396	21,900		8		1.81
73,293	4,592,367	163	2,348	1.60	75,166	6,200,290	50	2,039	10,334	1.21
24,944		166	688	1.82	27,432	1,579,395	32	858	4,113	1.74
2,943			778	1.75	2,087	97,375	3	74	2,705	2.14
36,915			1,818	1.54	34,920	2,024,552	29	1,231	5,818	1.72
								65	4 500	1.00
7,928			1,257	1.70		161,990	3		4,500	2.14
3,726			976	1.67	1,528	71,250	1 11	43 249	5,938	2.14
7,353			439	1.66 1.92		278,381	11	249	2,109	2.31
1,885 2,067		13 14	628 743	1.66		42,420	3	43	1,178	1.91
2,007	121,101									
454,770	27,015,134	1,601	1,406				259	31,277	35,323	0.97
4,820	256,890		2,141	1.88	1	78,465	7	89	934	2.66
4,852	376,327		(1,364)	1.29		422,031	7	212		1.46
7,499	381,324		775	1.97		222,597	9	221	2,061	2.51
23,472	1,443,721	93	1,294	1.63	368,116	55,301,192	48	9,055	96,009	0.67
167,185	12,133,205	725	1.395	1.38	275,736	30,516,019	107	8,936	23,766	0.90
70,824			1,485				62	2,695	7,984	2.03
151,889			2,278	i	1		66		8,372	
321,877						715,448,699	169	95,156	352,785	
1,159,418					1,425,594	144,705,405	296	40,850		0.99
					2.050	491,360	3	121	13,649	0.79
10,403						1				
19,357							1	1		
15,892					1		1			
105,676				1	1					
34,514	1,347,409	124	900	2.50	11,22	-,,				
83,929	6,442,665	497	1,080	1.30	64,839					
10,333			1							
17,590					16,548			1		
37,135			749	1.74	8,672					
2,78			501	1.85	2,260	58,300	3	95	1,619	3.88
				7 0.46	223,720	20,674,508	94	6,779	18,328	1.08
186,222							1			
14,940							1			
8,169									5,391	
30,928 26,130								324	3,019	2.01
20,13	1,301,00						7 4 4 5	7 7 7 5	11,840	1.09
176,40	7 11,500,69	5 660								
42,82		9 231			1					
28,01										
35,98		0 90	1							
518.97	4 30.149.47	4 1,629	1,54	2 1.7	2 176,65	13,980,040	203	3,20	0,10	

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

			(in	Domestic		eaters)	
$\mathbf{Municipality}$	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	¢
Sunderland	573	258	11,869	954,027	209	380	1.24
♦Sundridge	765	297	12,561		232	284	1.59
Sutton	1,405	884	32,974		721	347	1,10
♦Swansea	9,221	3,507	178,493		3,348	448	0.99
◈Tara	477	234	9,119	750,620	212	295	1.21
Tavistock	1,204	502	26,781	2,260,405	391	482	1.18
◆Tecumseh	4,359		58,216		1,258	239	1.62
◆Teeswater	877	359	14,807	1	323	326	1.17
♦Terrace Bay	1,862	416	33,817	4,507,529	389	966	0.75
◆Thamesford	878	348	22,618	1,624,363	329	411	1.39
◆Thamesville	1,015	448	14,346	991,090	395	209	1.45
Thedford	733		12,039		270	319	1.16
♦Thessalon	1,741	539	30,386		445	313	1.82
Thornbury	1,129		22,594		420	287	1.56
♦Thorndale	410		9,162		128	394	1.51
†Thornloe	189		1,844		24	393	1.63
Thornton	295 8,483	103 2,529	4,997 126,451	364,100 9,933,804	92 2,255	330 367	1.37 1.27
Thorold	3,011	1,009	35,674		900	207	1.60
♦ Tillsonburg.	6,471	2,424	101,877	7,990,884	2,130	313	1.27
	\$21.240	9,442	536,668	40,106,915	8,134	411	1.34
†Timmins (including Schumacher) Toronto (including Leaside)	§31,342 665,382	205,205	11,650,639		171,270	455	1.25
Toronto Twp	57,179	15,525	997,781	93,339,144	14,306	544	1.07
Tottenham	754	275	13,439	1,135,658	214	442	1.18
♦Trafalgar Twp	28,624	6,938	587,443	47,092,740	6,748	582	1.25
Trenton	12.095	3.978	178.158	22,095,508	3,515	524	0.81
Trenton. Tweed	1,688	613	23,091	2,716,457	550	412	0.85
♦Uxbridge	2.311	863	42,129	3,971,677	781	424	1.06
♦Vankleek Hill	1,675	533	24,144	1,347,237	487	(239)	1.79
Victoria Harbour	1,030	487	18,146		446	192	1.77
A XX a boost and	2.011	4.070	60.402	F 053 050	4 4 6 2	270	4.44
♦Walkerton♦Wallaceburg	3,811 8,050	1,272 2,638	60,193 88,078	5,273,970	1,162	378	1.14
Wardsville	336	2,038	88,078 4.828	6,584,635 356,861	2,341 113	234 263	1.34
♦Warkworth	540	232	10.469	819,810	226	(308)	1.33
♦Wasaga Beach	*406	1,010	27,026	1,035,495	799	108	2.61
		# O .	20.555	2 222 5 1 7	407		4.7.5
Waterford	1,794 2,105	584 752	39,393 38,523	3,230,815 2,609,339	495 717	544 303	1.22
♦ Waterford	19,441	6,000	38,523 377,490	36,503,360	5,449	558	1.48
Watford	1,239	522	24,487	1,926,067	3,449	391	1.03
Waubashene	§1,300	433	13,995	811,763	399	170	1.72
	82,000	.00	20,550	0.11,703		1,0	1112

Commercial service (including flat-rate water-heaters)					Power service					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	é	\$	kwh	No.	kw	kwh	é
5,372	222,465	45	412	2.41	4,519	206,867	4	101	4,310	2.18
8,593	404,200	62	543	2.13	1,236	52,140	3	40	1,448	2.37
19,977	1,185,562	152	650	1.69	5,055	248,007	11	169	1,879	2.04
54,686		136	2,592	1.29	59,838	7,485,047	23	1,843	27,120	0.80
2,789		17	798	1.71	5,385	388,610	5	152	6,477	1.39
11,049	540,316	102	441	2.04	9,555	443,467	9	302	4,106	2.15
12,136	731,198	45	1,354		8,870		16	284	3,213	1.44
5,081	298,685	29	858	1.70			7	333		
13,981	1,206,280	25	4,021	1.16			2	163	24,917	0.94
9,427	659,983	15	3,667	1.43	3,804	180,095	4	101	3,752	2.11
7,707		38	1,072		15,428		15	579	4,326	
3,995			860		3,134		5	84	5,550	
19,211			844		3,017	218,808	7	93	2,605	1.38
11,291			471			874,970	19	492	3,838	1.47
978	42,040	4	876	2,33	2,307	82,432	3	64	2,290	2.80
1,244							, , , , , , , ,			
1,247			372					0.051	104,521	0.67
47,134				Į.	343,322		41	722	2,635	2.27
24,817				1			26 51	1,901	8,108	
81,772	5,514,577	243	1,891	1.48	59,986	4,962,078	31	1,901	0,100	1.21
250 201	15,726,547	1,168	1,122	1.59	56,987	2,820,579	140	1,397	1,679	2.02
250,205		1				1,478,649,419	6,798	393,313	18,126	0.99
9,079,047		1					147	32,939	100,428	0.76
314,425	1	1		1			7	65		1.54
5,123							69	9,999	68,965	0.85
62,530	3,103,020	121	2,100	1.,,	1					
79,299	7,197,942	376	1.595	1.10	331,553	53,187,295	87	10,790		
9,11			1 '		1			. 291	3,425	
14,534			1					768		
11.528						129,892	11	216		
4.04					1	32,400	1	6	2,700	1.06
4,04	107,10									
27,10	1,736,511	91	1,590	1.56	27,979	2,279,253				
61.08			-,			31,262,082	92	7,564	28,317	0.90
5,28										
1,79			1							
24,32					38:	12,000	1	. 14	1,000	3.18
						074 (00	17	156	1,346	1.57
12,01	0 647,510									
8,58				1						
156,86								1		
15,02										
3,45	2 158,480	0 31	420	5 2.18	2,740	107,300		00		

Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

			(in	Domestic		eaters)	
Municipality	Popula- tion	Total customers	Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	\$	kwh	No.	kwh	é
Webbwood	590	146	10,090	348,884	121	240	2.89
Welland	17,367	5,380	186,268		4,615	272	1,24
Wellesley	655	275	13,572	960,502	215	372	1.41
♦Wellington	1,012	534	16,284	1,681,908	494	284	0.97
♦West Ferris Twp	4,682	1,744	117,922	7,702,456	1,613	(403)	1.53
	1.116	424	17,359	1,130,448	378	249	1.54
Weston	9,254	3,254	185,103	17,129,077	2.832	504	1.08
♦Westport	680	288	11,104	1,025,170	260	(332)	1.08
Wheatley	1,320	486	18,201	1,191,871	391	254	1.53
♦ Whitby	11,943	3,681	206,115	17,585,284	3,312	(451)	1.17
♦†White River	727	204	19,282	682,296	190	299	2.83
♦Wiarton	1.968	776	32,970	3,178,469	697	380	1.04
Williamsburg	356	145	4,400	493,723	106	388	0.89
Winchester	1,348	550	23,994	1,920,309	444	360	1.25
♦Windermere	*127	120	4,510	250,520	108	193	1.80
♦Windsor	117,712	37.050	1,413,068	125,847,059	34,236	306	1.12
♦Wingham	2,715	1,032	51.087	5,094,850	916	464	1.12
♦Woodbridge	2,243	753	49,521	4,223,868	691	(548)	1.17
♦Woodstock	19,458	6,692	409,383	34,395,558	6,193	463	1.17
Woodville	409	186	8,196	523,205	149	293	1.19
♦Wyoming	843	324	9,337	693,120	294	196	1.35
♦York Twp	123.555	39,725	2,005,268	210,947,435	38,132	461	0.95
Zurich	624	297	13,556	914.500	237	322	1.48
	024	271	13,330	714,300	231	322	1.48

- ♦ New municipal resale rate structure
- and with small commercial customers transferred to domestic billing
- † Local system
- * Excluding summer population
- ** Small commercial customers transferred to domestic billing
- § Estimated
- ‡ Excludes revenue and kwh from the sale of power to Ontario Hydro

December 31, 1959

COMMERCIAL SERVICE (including flat-rate water-heaters)					Pow	ER SERVI	CE			
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of customers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	é	s	kwh	No.	kw	kwh	ć
5,692	170,658	23	618	3.34	835	40,600	2	22	1,692	2.06
154,977	10,032,310	632	1,323	1.54	365,179		133	10,658		0.93
5,881	293,732	53	462	2.00			7	81	1,389	
3,433	211,829	20	883	1.62			20	187	991	
43,617	2,262,123	121	(1,337)	1.93	29,721	3,482,171	10	698	29,018	
8,935	452,435	35	1,077	1.97	26,037	1,869,715	11	643	14,165	1.39
129,060	8,613,020	345	2,080	1.50	156,257	16,086,789	77	4,800	17,410	0.97
6,245	394,280	27	(1,095)	1.58	49	790	1	3	66	6.14
18,246	864,010	79	911	2.11	16,959	818,880	16	483	4,265	2.07
74,501	4,665,613	316	(1,018)	1.60	235,759	27,133,964	53	6,680	42,663	0.87
12,395	585,111	13	3,751	2.12	5,328	349,320	1	72	29,110	
15,823	1,055,898	63	-,	1.50		719,288	16	377	3,746	1.50
3,736	257,246	38		1.45		15,590	1	6		1.65
14,431	906,038	96		1.59		1,990,090	10	472	16,584	0.95
2,797	183,940	12	1,277	1.52						
811,667		2,067	2,493	1.31	1,891,884		747	63,933		
19,448		82		1.58			34	1,286		
19,583		46		1.86			16	1,033		
135,269				1.45		40,988,936	138	11,456		0.94
3,516	141,688	35	337	2.48	1,258	46,060	2	36	1,919	2.73
4,291	273,250	24	949	1.57	7,251	327,075	6	263	4,543	2.22
450,569	1 1			1.26			480			
8,782		57		2.48	870		3	26		
0,702	334,410	31	010	2,10						

NOTES

The figures shown in brackets under the heading "Monthly consumption per customer" have been estimated to allow for the transfer of small commercial customers to domestic service during 1959.

In Forest Hill and Scarborough Twp. further complications resulted from the transfer of power customers to commercial service and the average consumption per customer figures have therefore been omitted.

LIST OF ABBREVIATIONS

kwh —kilowatt-hour(s) M.E.U.—Municipal Electrical Utilities A.F.L. —American Federation of Labour bhp -brake horsepower cfs —cubic feet per second C.I.O. —Congress of Industrial -minimum —minute (20-min) N.O.P. —Northern Ontario Properties Organizations C.L.C. —Canadian Labour Congress NPD -Nuclear Power Demonstration R.O.A. —Rural Operating Area G.S. —Generating Station hp -horsepower rpm -revolutions per minute Ict. —Iunction S.O.S. --Southern Ontario System S.S. T.S. kv -kilovolt(s) -Switching Station kva -kilovolt-ampere(s) —Transformer Station -kilovar(s) -Township kvar Twp. V.Â. -Voted Area kw -kilowatt(s)

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A = Statements "A" and "B"—Financial Statements of the Municipal Electrical Utilities

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 $D = {\tt Statement "D"-Customers, Revenue, and Consumption in Municipal Electrical Utilities} \\ {\tt and Local Systems}$

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